

BUFFALO SOLDIERS

A British LVT-4 in action, Scheldt Estuary 1944



www.creativemodels.co.uk

Model by Wayne Hui

Model by Jeremy Moore

Get Creative!

CREATIVE MODELS LIMITED

HOBBYBOSS, VALLEJO, MODEL MASTER, MINIART, MASTER BOX, AK INTERACTIVE, MIG PRODUCTIONS, PLUS MODEL AND MANY MORE...

Unit 6-10, Honeysome Ind Est., Honeysome Road, Chatteris, Cambs. PE16 6TG
www.creativemodels.co.uk Tel: +44(0)1354 760022



4 NEWS

Military scale-modelling news

8 TAMIYA FIGURE SETS

Tamiya's new 1:35 Machine Gun Team and KS600 Motorcycle and Sidecar, previewed

12 TAMIYA LEOPARD 2A7V

A special, one-off feature from MIM's sister title, Tamiya Model Magazine

18 LEOPARD 2A7V

Special reference feature on Germany's current MBT

24 STUG E-100: FURY ROAD!

Trumpeter's 1:35 E-100 in Mad Max style

COVER STORY

32 BUFFALO SOLDIERS

1:35 LVT diorama depicting a scene from the Battle of the Scheldt Estuary, 1944

42 LVT references

Reference images of the LVT Water Buffalo

44 GHOST FACTORY

A scene from an abandoned Tiger II factory at the end of WWII

50 CHAR DE BATAILLE: CHAR B1

Modelling walk-around references for the French Char B1

58 STREET FIGHTERS

An M4 Sherman fights through a narrow street in southern Germany

60 ORDNANCE DEPOT

New and recently released accessory sets and modelling materials

62 BOOK REVIEWS

Military modelling-related book reviews

66 SIGN OFF

A US Army M8 Greyhound in Paris



NEWS JUST IN...



GECKO MODELS

- 1:35 British Army Truck Driver Set
- 1:35 Dragon Teeth Anti-Tank Obstacle Set

tankmuseumshop.org



HOBBYBOSS

- 1:35 LAV300 90mm Cockerill Gun
- 1:35 PLA Medium Tank

creativemodels.co.uk

INSIDE THE ARMOUR

- 1:35 Ferret Armoured Car Exterior Basic Set (for Airfix kit)

insidethearmour.com



PLUS MODEL

- 1:32 US M5 bomb trailer, resin and 3D parts, with decals
- 1:35 Jeep with radio equipment US radio set with BC 610 and BC 342 radios

plusmodel.cz



RYE FIELD MODEL

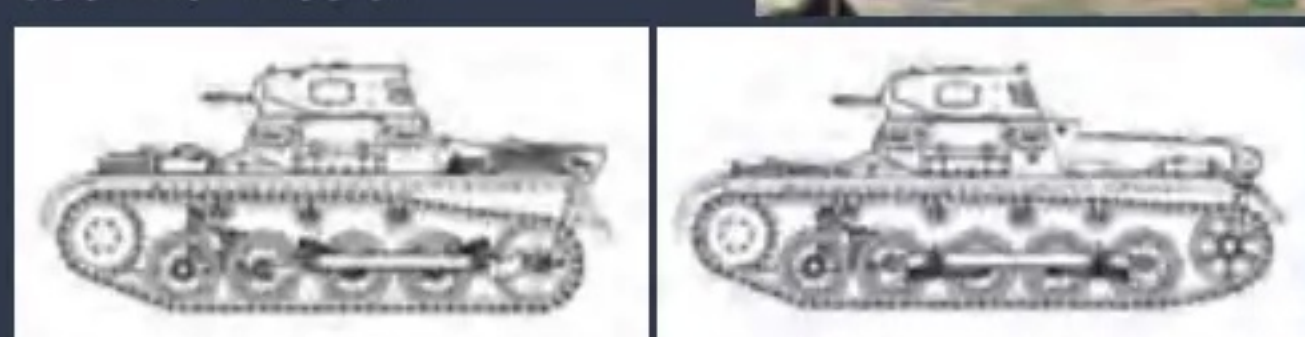
- 1:35 Sd.Kfz. 234 road wheels 3D
- 1:35 FG1250 IR scope kit for Panther Ausf. G

tankmuseumshop.org

TAKOM

- 1:35 Pz.Kpfw.I Ausf.A
- 1:35 Pz.Kpfw.I Ausf.B
- 1:35 Vk.100.01 (P) K3382

bachmann.co.uk



TRUMPETER

- 1:72 M706 Commando Armoured Car
- 1:16 Pz.Kpfw.III Ausf.J
- 1:16 StuG.III Ausf.G 1943 Production
- 1:35 US Army M1131 Stryker FSV

bachmann.co.uk



VESPID

- 1:72 Panther KF51 German MBT

tankmuseumshop.org

BACK FROM TAMIYA 1:10 RADIO CONTROL FAST ATTACK VEHICLE

Ok, so it's not a scale model, but it is military and it is also a lot of fun! Tamiya originally launched their RC FAV forty years ago in 1984 and it has resurfaced a few times since. Now it's back again for some off-road high-jinks!

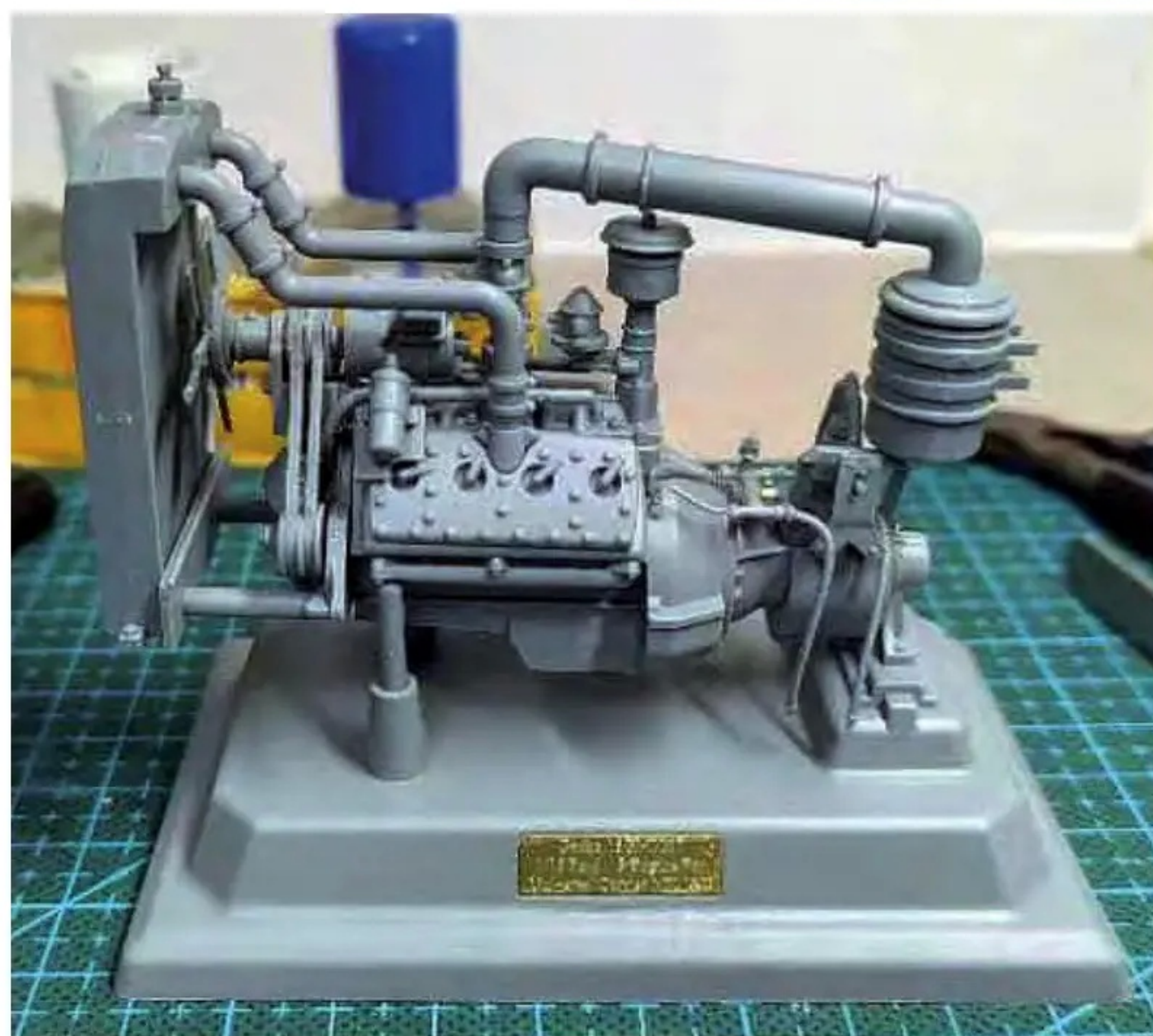
www.hobbyco.net



NEW FROM GECKO MODELS 1:16 UNIVERSAL CARRIER MK.I AND II FORD V8 ENGINE

Gecko's 1:16 Universal Carrier is nearly on release and now they have issued the engine on its own for external display.

www.tankmuseumshop.org



+ German 7.5cm Pak 40 Anti-Tank Gun Early Production



NEW FROM GECKO MODELS 1:16 7.5CM PAK40 ANTI-TANK GUN EARLY PRODUCTION

A PaK40 in large 1:16 scale is a tempting prospect and Gecko's kit is sure to be a highly detailed production.

www.tankmuseumshop.org



NEW FROM TAKOM 1:35 SD.KFZ.250/1

Great news from Takom - they have an all new Sd.Kfz.250/1 German WWII halftrack on the way, with other variants sure to follow.

www.bachmann.co.uk



NEW FROM ICM 1:35 KOZAK-2 STATE BORDER GUARD SERVICE OF UKRAINE

As the war in Ukraine shows no sign of abating, ICM continue to bring us highly up-to-date kits of hardware that is fighting hard in the region.

www.hannants.co.uk





NEW FROM MAGIC FACTORY 1:72 SD.KFZ.234/2 PUMA

Just when we thought the 'Puma tsunami' of recent months had subsided, we get news of yet another kit! This time it's in 1:72 from relative newcomers 'Magic Factory' and promises to be a very nice little model. www.magicfactory.ltd



NEW FROM RYE FIELD MODEL 1:35 T-55AMD DROZD ACTIVE PROTECTION SYSTEM

An interesting version of the ubiquitous T-55 with lots of add-on exterior systems, ideal for weathering.

www.tankmuseumshop.org



NEW FROM HOBBYBOSS 1:48 PZ.SFL.IV DICKER MAX

'Fat Max' has been seen in 1:35 in the past, but now Hobbyboss have this 10.5cm-equipped SPG on the way in 1:48. www.creativemodels.co.uk



NEW FROM TAKOM 1:35 OBJECT 279 W/NBC COMMANDO

A retro-futuristic release here, in the form of the Cold War Object 279 combined with post-apocalyptic shock troops. A nightmare we hope won't come true, other than in 1:35! www.bachmann.co.uk



NEW FROM VESPID 1:35 CRUISER TANK MK.VIII CHALLENGER (A30) LATE PRODUCTION

This WWII British design that used a Cromwell tank-based hull and running gear, with a large turret housing the powerful QF17-pounder anti tank gun.

www.tankmuseumshop.org



NEW FROM ITALERI COMING SOON IN 1:35 FROM ITALERI

- 1:35 GMC 2 1/2 ton 6x6 Truck "D-Day 80th Anniversary"
- 1:35 Pz.Kpfw.VI Tiger I Ausf. E late production
- 1:72 DUKW 2 1/2 ton GMC amphibious truck "D-Day 80th Anniversary"

www.hobbyco.net



NEW FROM TRUMPETER 1:35 VBM FRECCIA

This is an eight-wheel drive AFV used by the Italian military that replaced the US-made M113. A highly detailed kit from Trumpeter for sure!

www.bachmann.co.uk



Model Craft
FREE GIFT

DOOLITTLE
MEDIA

MILITARY ILLUSTRATED MODELLER LIMITED TIME

SUBSCRIPTION OFFER

**SUBSCRIBE OR RENEW FOR 24 ISSUES
AND RECEIVE A FREE GIFT WORTH £45 RRP!**

We have teamed up with our friends at Model Craft so we can offer you a special gift for subscribing with us for 24 issues.

Flexible Masking Tape Set

These making tapes are ideal for Modelling, Airbrushing, Arts, Craft, Hobby and even those smaller DIY tasks. The tape sticks, stays and removes cleanly. It is also U.V. protected for masking in direct sunlight.

This flexible acid free tape is designed to follow curved lines and contoured surfaces without creasing, tearing or paint bleed.

- Precise masking with no paint bleed
- Acid free
- 1mm, 2mm, 3mm, 6mm & 10mm widths, 18m length
- Comes in twin packs, so you receive 10 packs
- 180m of masking mayhem!
- FREE GIFT worth over £45!



* Terms and conditions

While stocks last. Customers attempting to take out this offer after all stock is gone will be contacted before any money is taken. Subscriptions taken out with this offer will not be refunded if cancelled.

Doolittle Media Ltd., The Granary, Doolittle Lane, Totternhoe, Bedfordshire, LU6 1QX, Great Britain

W. www.doolittlemedia.com **E.** enquiries@doolittlemedia.com **T.** +44 (0) 1525 222573

24 ISSUE MIM SUBSCRIPTION

24 Issue subscription:- UK; £152, Europe; £180, Worldwide; £200

Renewal/Extension ☐

New Subscription - AFV & AIR issues ☐ Starting with issue No.....
AFV issues ☐ Starting with issue No.....
AIR issues ☐ Starting with issue No.....

Name

Address

Country **Post/zip code**

Telephone Number

Email

Please be aware that all credit/debit cards are processed through PayPal and this may appear on your bank statement

Please tick to confirm that you accept with the terms and conditions ☐

Please debit my credit/debit card for £.....

Visa ☐ Mastercard ☐ Maestro ☐ Cheque ☐

Card number:

Maestro only

Expiry date..... Valid from..... CCV Code..... Issue No.....
3 digits on the signature strip If applicable

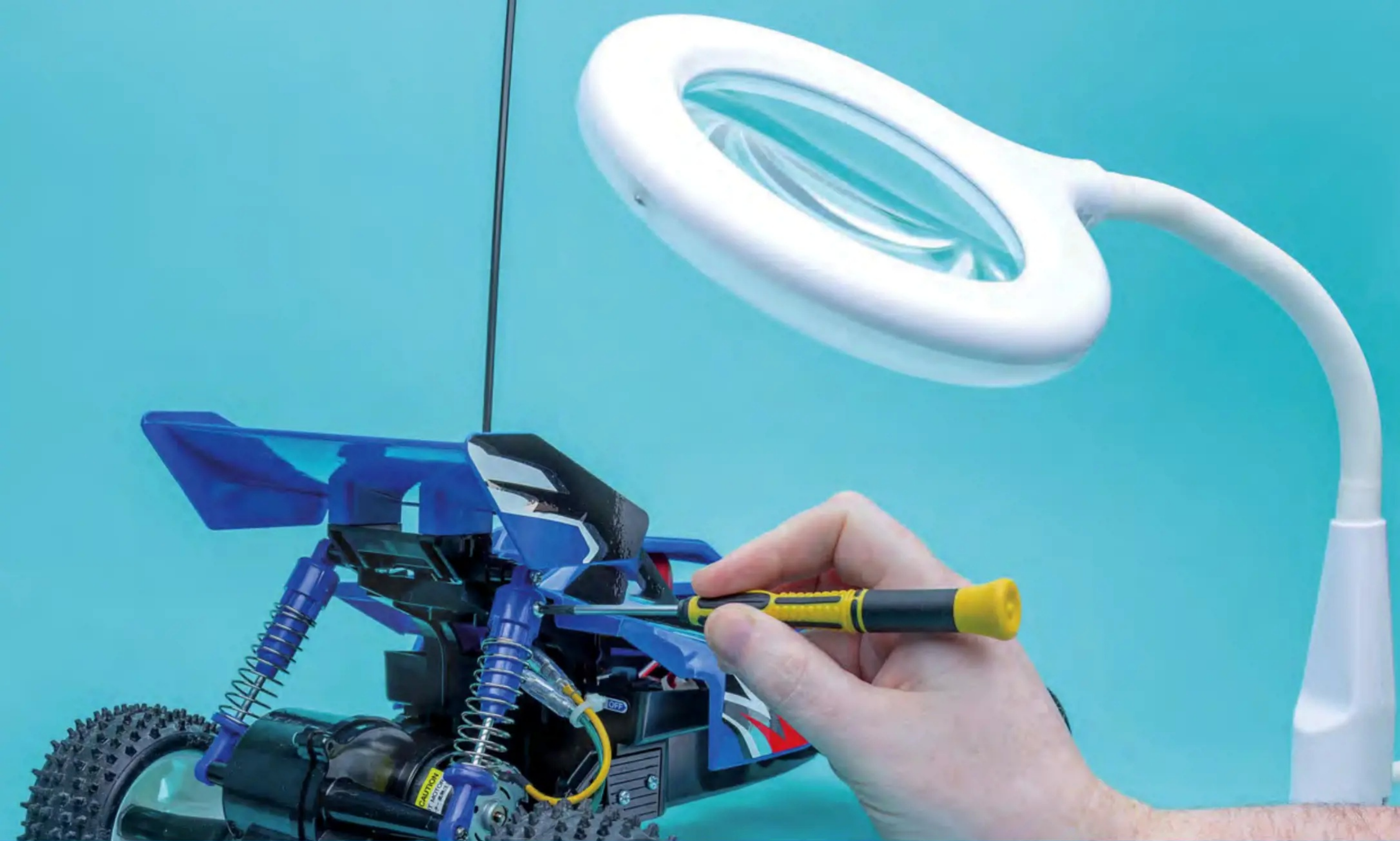
Signature..... Date.....

Please call our subscription line or mail this form, or a copy, to;

Doolittle Media Ltd., The Granary, Doolittle Lane, Totternhoe, Bedfordshire, LU6 1QX, UK

Tel: +44(0)1525 222573 **Online:** www.doolittlemedia.com

(Photocopies of this form are acceptable) **Make cheques payable to Doolittle Media Ltd.**



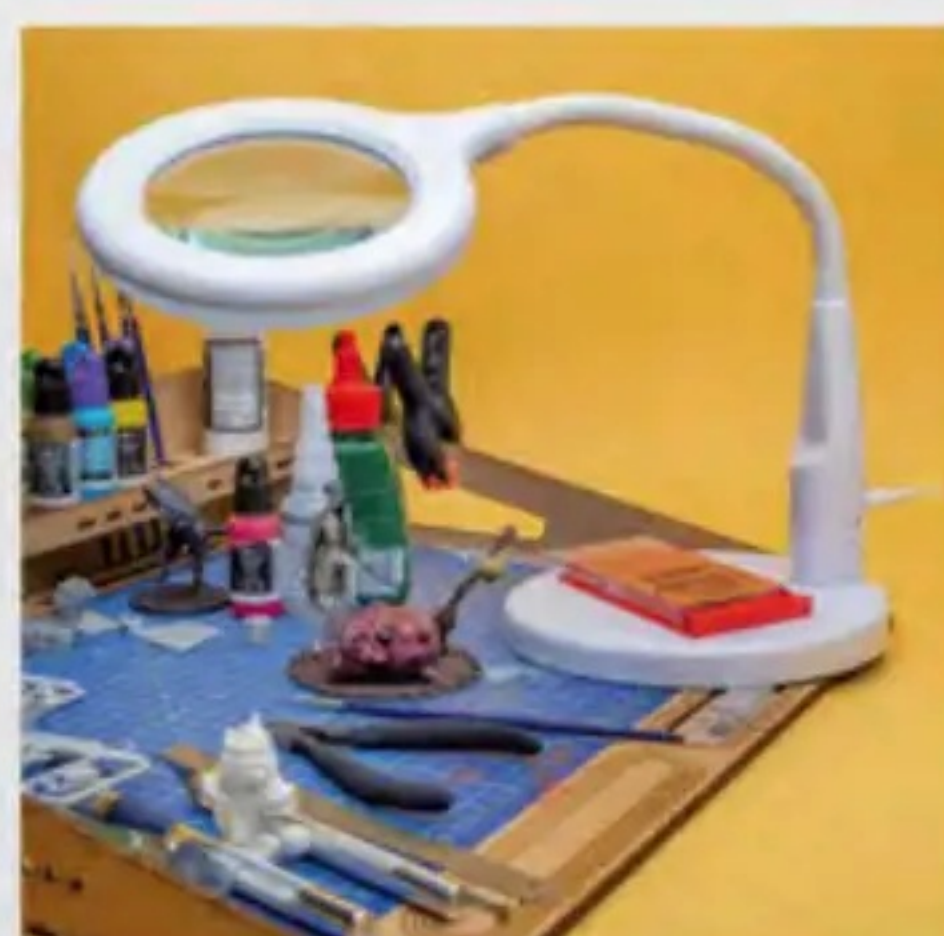
LightCraft

LED Magnifier Lamp

LC8080USB
RRP £29.99

- 36 LEDs, 6500K daylight
- High-quality 100mm glass lens
- 3 dioptré (1.75x magnification)
- Easy positioning with flexi neck
- Perfect for hobby and craft

An excellent value magnifier lamp with easily adjustable flexible neck that provides balanced, steady lighting. Cool white LEDs produce clean bright lighting that's shadow-free, cuts glare and helps reduce eye strain and headaches, perfect for detailed work.





KIT PREVIEW

MACHINE GUN TEAM MID-WWII

An all-new, five-man team of gunners is on release from Tamiya in 1:35



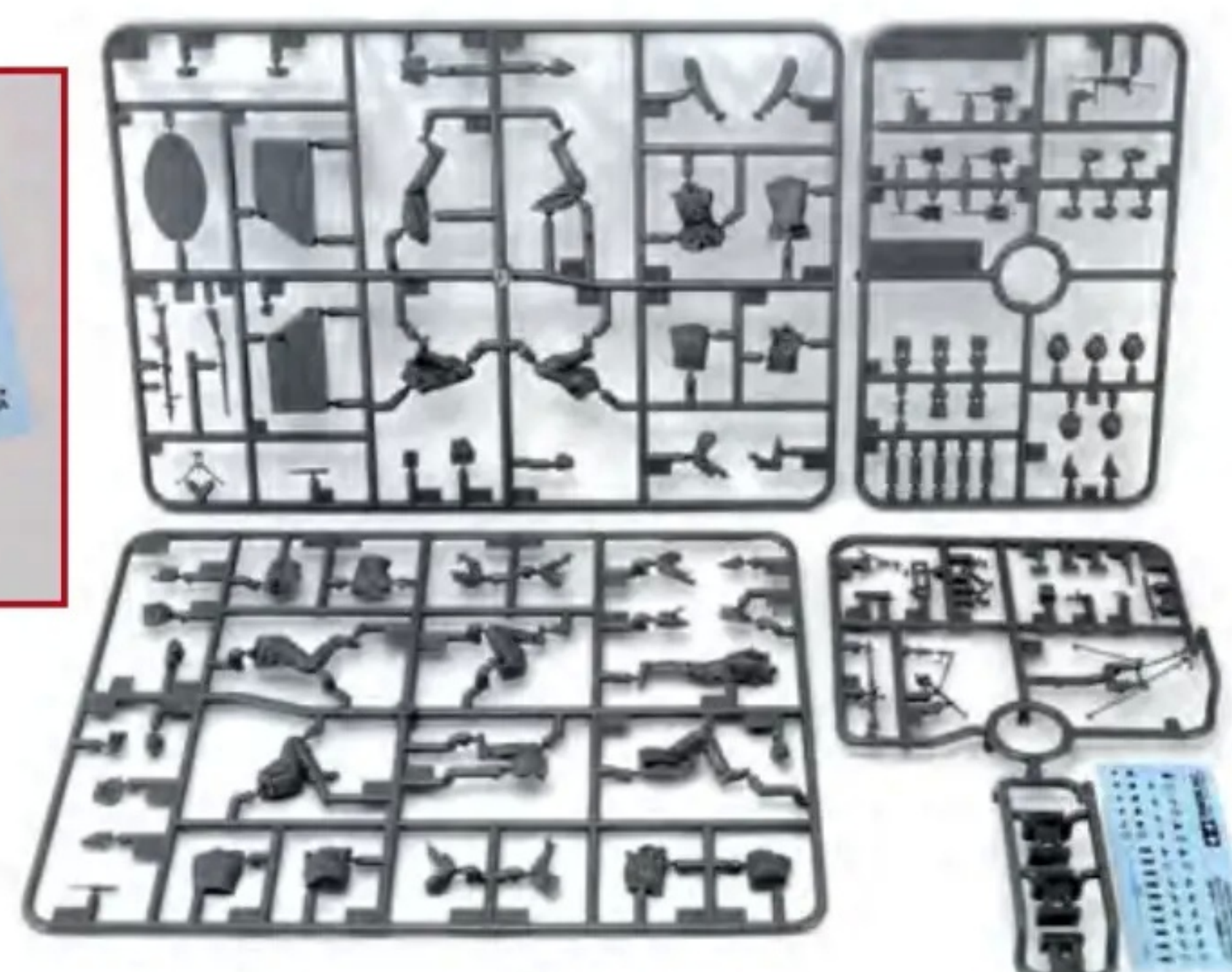
Over the last few years, Tamiya's figure sets have undergone a massive improvement in quality, from their poses to the fine details and in some cases they rival resin figures, and they are also extremely good value for money. Tamiya's latest two sets both depict World War Two German army figures from the mid-war period, which means they will be suitable to go with the widest range of tanks and soft-skinned in a diorama setting.

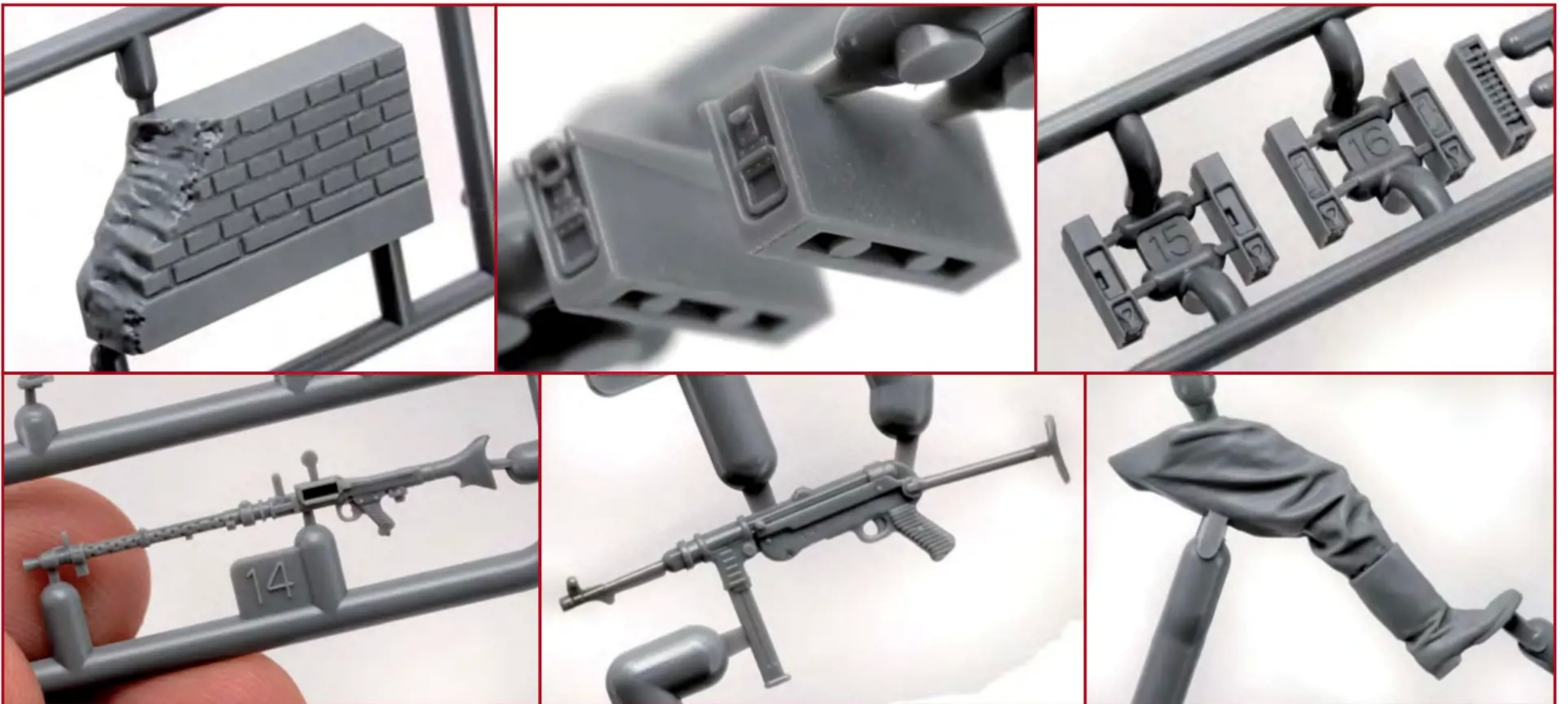
Tamiya's original 1:35 'German Machine Gun Troops' Military Miniatures Series figure set (35038) was released in 1974 and has been a popular item for fifty years, so the new, similarly-titled 'German Machine Gun Team' (35386) is very welcome indeed. It's a five-man set this time, with a pair of reclined MG34 gunners, kneeling MG42 and MP40 gunners and a walking figure carrying ammunition cans. A small section of brick wall is also supplied, on which the MG42 gunner rests his gun. The parts come on four sprues of grey, injection-moulded polystyrene, with small sheet of waterslide decals for uniform insignia.

The detail is fantastic and the highlight is the belt of ammunition being fed into the MG34. It's difficult to mould something this thin in traditional plastic, and Tamiya's designers have done a marvellous job of it. •

AVAILABILITY;

Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; www.hobbyco.net



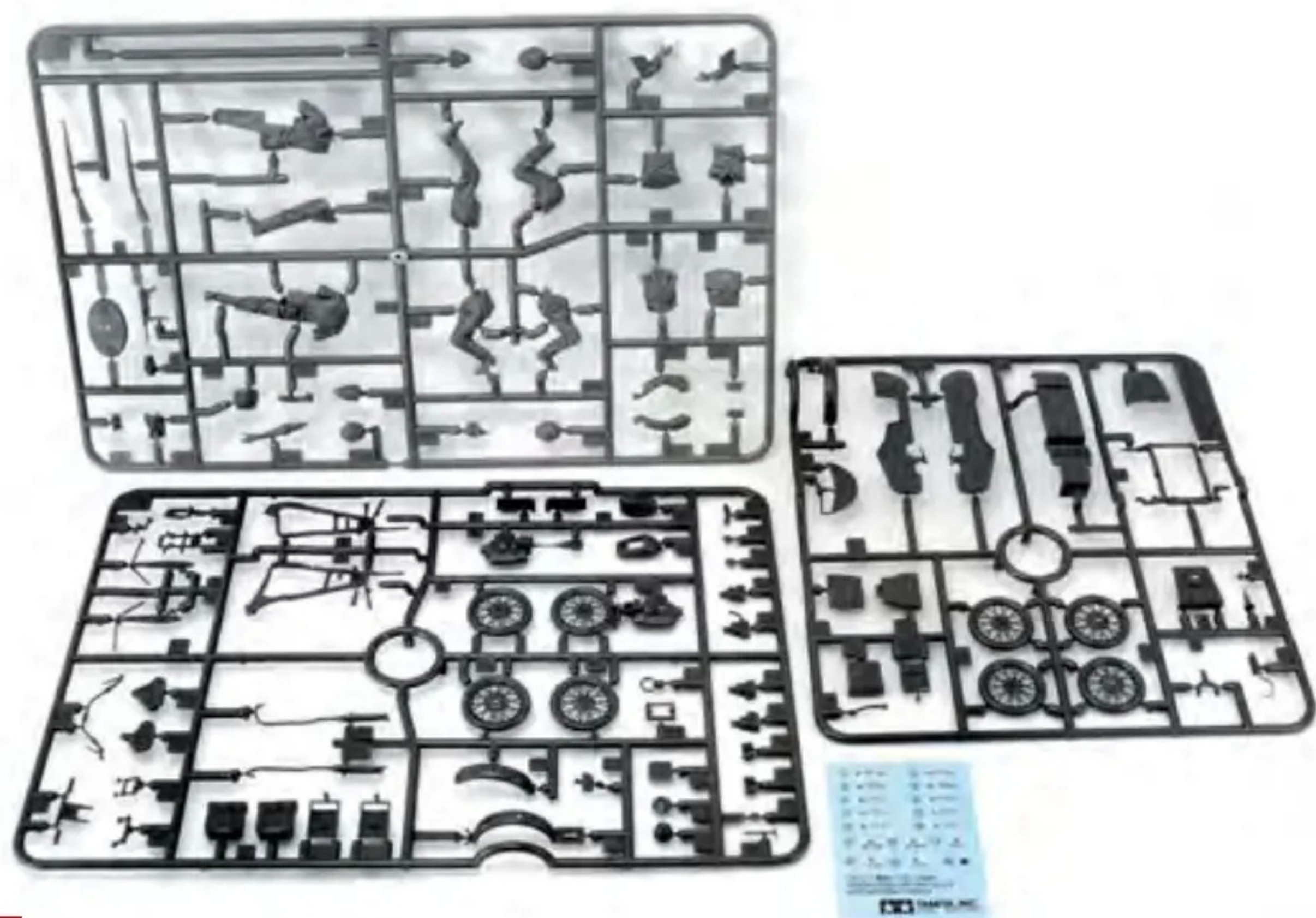




KIT PREVIEW

KS600 MOTORCYCLE & SIDECAR

The KS600 and sidecar rides again!



The (Zündapp) KS600 is a classic World War Two German motorcycle design that has become enduringly popular as a scale-modelling subject and Tamiya have created an all-new 1:35 miniature replica of this machine, plus sidecar, crew and foot-soldier in this set for 2024. The kit box contains two sprues of dark grey, injection-moulded polystyrene for the bike and sidecar, plus another in lighter grey for the figures, along with a decal sheet of German Army and Air Force markings, plus instrument panel for the KS600. Sadly, there are no extra decals for uniform insignia as supplied with the 'Machine Gun Team reviewed here', but to make up for that, Tamiya have provided a signpost and base, with the signs themselves printed in colour on the side of the box lid. Trim them out, glue in place, give them a coat of matt varnish and they'll look pretty good.

The limiting factor with injection-moulded motorcycle kits (in smaller scales) will always be the wheel spokes, and Tamiya has done a decent job of replicating them as finely as possible, without making them too delicate to work with. They are, however, a bit on the thick side still, and would look a lot better if replaced with 3D-printed parts, or perhaps photo-etched brass. Other than that, this is a superb new kit with top quality figures and superb detail on the motorcycle and sidecar. •

AVAILABILITY;

Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; www.hobbyco.net







LEVEL 4



© Luftwaffe Christian Timmig
Set includes Airbus A400M & Tornado - special livery
03789 Air Defender Set, 1:144

LEVEL 4



03795 Dornier Do 335 Pfeil, 1:48

LEVEL 5



03797 Ki-21-la "Sally", 1:72

LEVEL 4



03803 Airbus A340-300 "Lufthansa" New Livery, 1:144

LEVEL 3



06786 Speeder Bike™: The Mandalorian, 1:12

Available from all good model stockists and online from

hobbycraft

hobbycraft.co.uk/brand/revell

TAMIYA LEOPARD 2A7V

In this special photo-feature, **Marcus Nicholls** introduces his build of Tamiya's all-new 1:35 kit of the modern German army's Leopard 2A7V main battle tank



We very rarely, if ever, duplicate model articles across model magazine titles, but Tamiya's new 1:35 kit of the Leopard 2A7V is such a significant release, we felt it was worth putting together this condensed feature on the kit for this issue of MIM, plus a selection of reference images of the real thing. The full, three-part article, including extensive in-progress model photos and reference images, was published in Tamiya Model Magazine Issues 342 (April 2024), 343 (May 2024) and 344 (June). If you'd like to read more on this project, please visit: www.doolittlemedia.com

where you can purchase back issues.

Tamiya announced their Leopard 2A7V main battle tank at the 2024 Nuremberg Toy Fair show to much acclaim, and MIM's sister title Tamiya Model Magazine was lucky enough to secure a sample for review. It's important to reiterate that this is a 100% new tooling which uses no parts at all from the company's (still excellent) 2003 Leopard 2A6 kit, item number 35242, the most recent outing of which was last year, taking the form of a Ukrainian-marked machine.

The new kit comes with photo-etched

metal parts that form the turret stowage bins and other items and the tracks are new too, presented in upper and lower runs moulded in two halves, with multi-part articulated individual links to wrap around the drive sprockets and idlers. A main gun barrel machined from aluminium is on release for the kit (for separate purchase) and as nice as it is, the kit-supplied item is superbly detailed, one-piece moulding that is more than good enough for the job.

The model was painted in the standard NATO three-colour camouflage scheme and was varnished with a couple of layers of VMS XXL Satin, which brings together the finish of



the Tamiya LP-60 NATO Black, XF-67 NATO Green and XF-68 NATO Brown colours.

The reason the green and brown come from the Tamiya Acrylic range and not Tamiya Lacquers was lack of availability in the author's paint supply at the time of painting the model.

To bring life and scale to the huge, slab-sided Leopard, the installation of the turret crewmen provided with the kit would be crucial to the model's final appearance. They are nicely sculpted with decent detail, and with some superb reference images to hand courtesy of Ralph Zwilling, I decided to rework their headphones by drilling them out and inserting

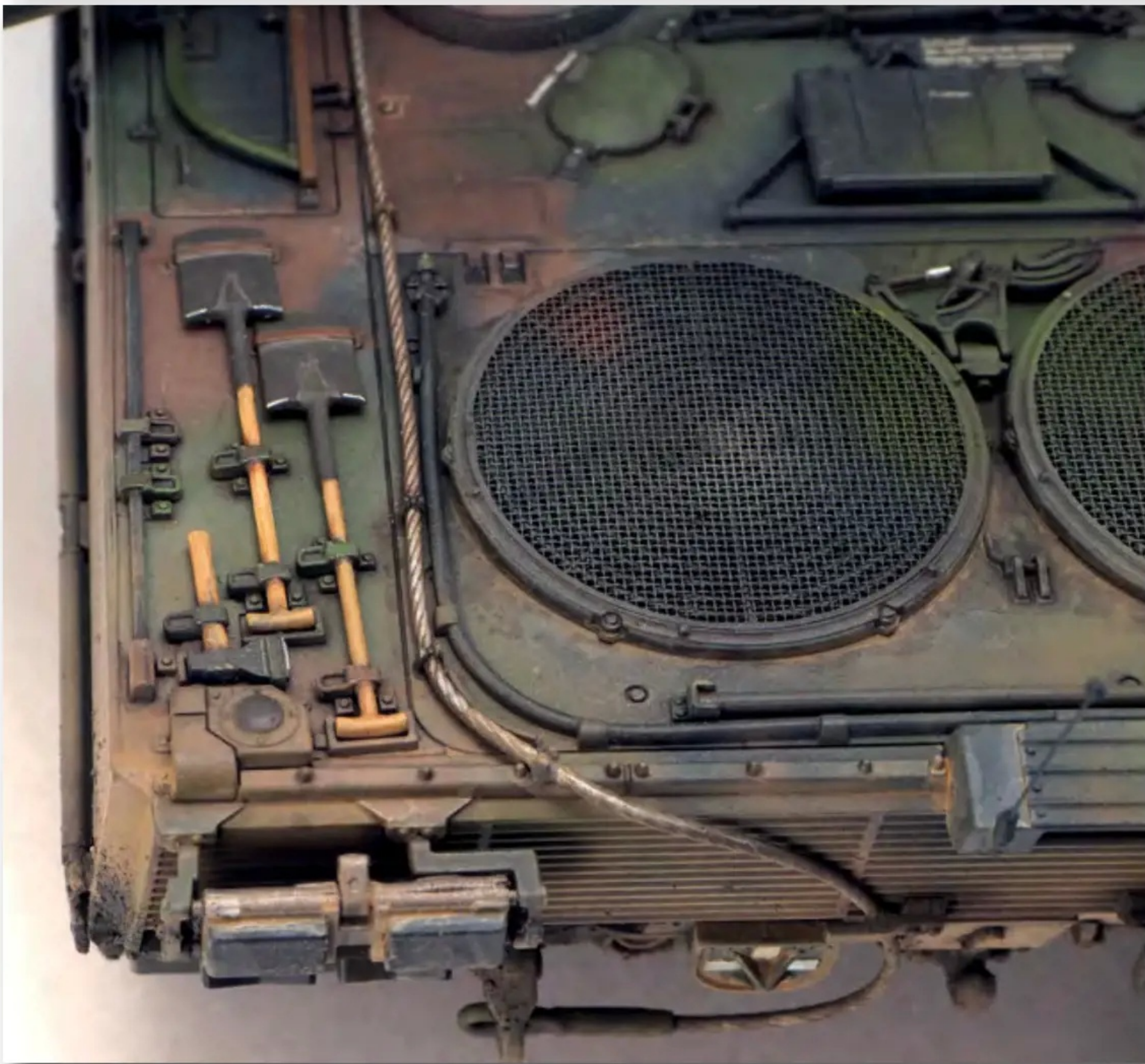
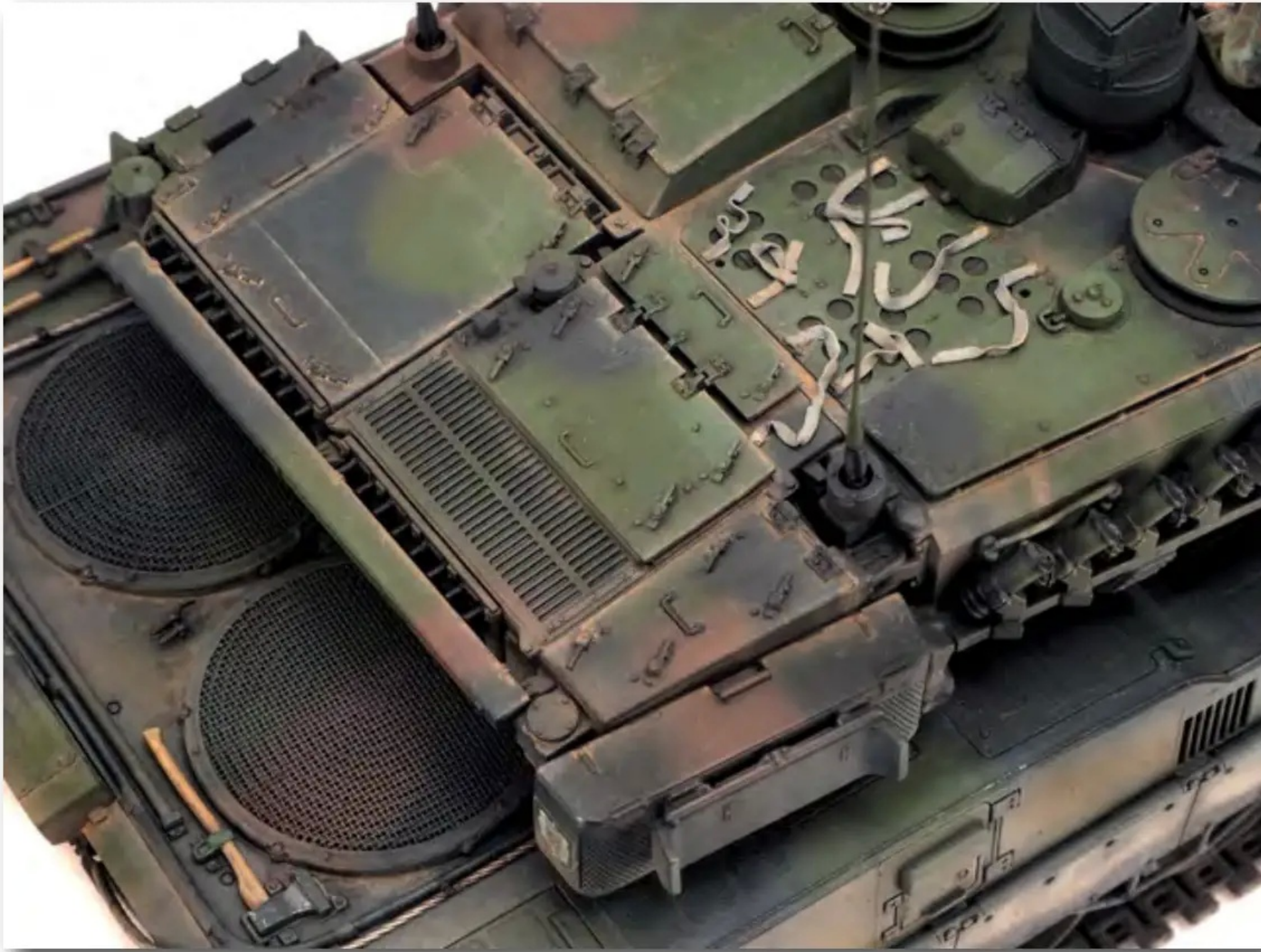
some pieces of scrap plastic strip to give them a more three-dimensional appearance. I used various acrylic paints by Vallejo to recreate the distinctive modern German army uniform camouflage, with the unit and rank insignia provided on the decal sheet.

Weathering was kept reasonably restrained across the model, with just localised 'dust washes' applied using Humbrol Enamel No.119. To add a splash of colour, I made a red 'on manoeuvre' flag from spectacle cleaning-wipe paper with some brass rod for the flag pole. I also made a second flag in green, which was in the left-side turret bin.

Red and white striped warning panels for the mudguards were made from plastic card and painted with Tamiya LP colours.

FINAL THOUGHTS

Tamiya has done a wonderful job with this kit, which I'll say yet again, is 100% new for 2024. It goes together like a dream, is detailed to perfection, but still leaving a few nice things to do for the super-detailers out there. If you fancy building a modern AFV to make a change from your usual WW2 subjects, you couldn't pick a better kit than this, and you might just get hooked! •





***"TAMIYA HAS DONE A
WONDERFUL JOB WITH THIS KIT,
WHICH I'LL SAY YET AGAIN,
IS 100% NEW FOR 2024..."***



MODELSPEC

TAMIYA 1:35 GERMAN MAIN BATTLE TANK
LEOPARD 2 A7V KIT NO.35387

Materials:

Injection moulded polystyrene (dark green and clear), photo-etched metal, waterslide decals

Paints used:

- Tamiya Lacquer Paints: LP-3 Flat Black, LP-60 NATO Black, LP-70 Gloss Aluminium
- Tamiya Acrylic Paints: XF-67 NATO Green, XF-68 NATO Brown, XF-72 JGSDF Brown
- Vallejo Acrylics: various (crew uniforms)
- VMS: Varnish HD Top Coats XXL Satin, XXL Matt

Extras materials used:

Plastic card, copper wire, nickel-steel tube, lead strip, lead wire

Availabilities:

Tamiya models, paints, materials and accessories are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; www.hobbyco.net
Albion Alloys: www.albionalloys.com/en (radio aerials)
VMS: www.scalemodelshed.co.uk (varnish)



We are pleased to introduce you the new Model Color, the range that sets the standard for all figure and model kits painting enthusiasts

The range consists of **220 references**, including 192 very opaque colors, 10 metallics, 2 transparent, and 16 auxiliary products, presented in the new 18 ml r-PET (recycled/recyclable) bottle, completely transparent and more sustainable. NO, it's not the same, it's better!

We have introduced a new formulation that will surprise you with its amazing brushability, excellent opacity and superb matt finish. You will notice that the colors dry quickly, forming a homogeneous and self-leveling layer that respects the smallest detail present in your model.

The range has been designed according to the Vallejo **BSL** (Base, Shade, Light) painting system, allowing you to easily locate the appropriate tones for highlighting and shading a specific base color.

Scan for more information:



Follow us at @VallejoColors



acrylicosvallejo.com

MODEL COLOR



Vallejo V

LEOPARD 2A7V: THE REAL THING

In this reference feature, **Ralph Zwilling** brings us some photographs of the German army's Leopard 2A7V main battle tank for use when detailing and painting your Tamiya kit. www.tank-masters.de













STUG E-100: FURY ROAD!



Karel Sutt takes Trumpeter's 1:35 E-100 kit and transforms it into a Mad Max-esque vision of grittiness, bristling with equipment and given an apocalyptic paint and weathering treatment!

The history of the E-100 (Entwicklung 100: Development, 100 tonnes) is quite well described on the internet, yet so mysterious and surrounded by so many question marks that I describe a certain detail as mentioned by Sturmbannführer Otto Günsche in one of the found documents concerning his estate. Otto describes the situation that occurred after the entire project was stopped on July 10th, 1944 by order of Adolf Hitler. Otto, as the former commander of the 1st LSSAH Panzer Grenadier company, was so impressed by the effectiveness of the Sturmgeschütz self-propelled guns that during the time when he served as Hitler's adjutant – i.e. with some influence and capabilities – he contacted Karl Jenschke who was a technical director and chief designer of the Adler company involved in development of E-100 project.

He introduced his idea a self-propelled tank destroyer on the E-100 chassis. In the same time asked Karl for a rough sketch, saying that he would then try to reverse Hitler's decision. Intrigued by this idea, Karl sent Otto a first sketch and then a second one based on Otto's comments. That one incorporated a 20mm Flak Flakvierling mounted on the casemate roof as a provision against air attacks.

Other improvement was a machine gun in the casemate frontside. This proved as indispensable after the bad experience of



the Panzerjäger Ferdinand on the Russian battlefield. Karl called this version the StuG E-100 Ausf. A. By the way Ausführung abbreviated to Ausf, meaning 'execution/implementation'.

I have to be honest that, with the passage of time, I am no longer able to determine

exactly from which a source I had learned what I described here and what influenced my project. A book, rumour or... I admit that it could have been even one of my vivid dreams. That's why I can't deny with certainty that the individual characters and situations are invented as part of free inspiration. ➔





ASSEMBLING THE KIT

Well, when I spotted Trumpeter's StuG E-100 kit, the buried aforementioned info immediately returned and I decided to bring it into reality.

An additional purchase with the basic E-100 kit was a Flak 38 kit (02309) from the same producer, plus four metal 2cm L/65 Flakvierling 38 barrels from Master-Model (GM-35-006). To represent the tracks in a realistic manner I usually use Friulmodel metal links, in this case ATL-120. Another item was a metal barrel from Aber for the E-100 of which I used only the only front part with barrel bore.

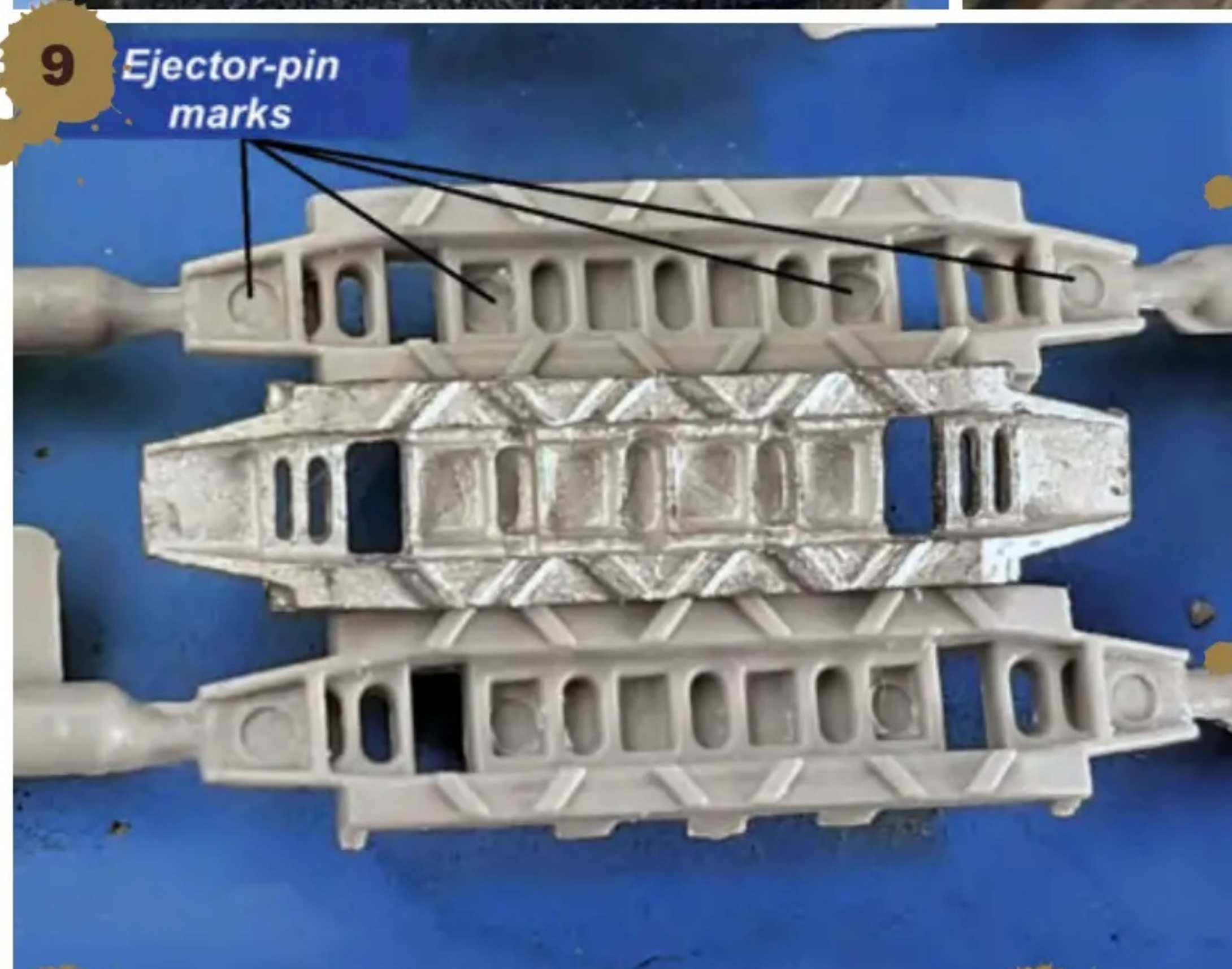
Furthermore, I obtained the Panzerfaust 60 and towing shackle set kits from Firma49. To be able to see the enemy at night was a tank commander's dream so the final expense was BL35113 IR Night Vision FG1250 from Blast models of very good quality but understand the instruction took me a while. I had enough on my plate now, as we say! **[pic 1]**.

As the first item in this build, the Flakvierling 38 landed on my workbench so I didn't wait for the other items to arrive and started this project by building it. Construction was pleasant and straightforward and I blackened the Master-Model metal barrels with Mig Productions Photo-Etch Burnishing Fluid (MIG2021) **[pic 2]**. I opened up the cooling holes on the operators' seats with Tamiya's 0.3mm drill bit **[pic 3]**.

I covered the ventilation outlet on the roof of the casemate and cut the frontal part of the Flak base to fit it on the roof in a forward position **[pic 4]**. The photo-etched parts D3 and D4 – panzer shields – were stiff and spring-like, so I heated them in over a flame until they lost their elasticity and would hold their shape when bent.

At the time of completing this step, the postman delivered my additional items. I have very good experience with Friulmodel tracks and the only difficulty for the impatient me is cleaning holes for the track pins with a 0.6mm Tamiya drill bit, as they were partly blocked with metal, hindering the smooth insertion of the wire rods.

Each track consists fifty-one links, which means, with spare links, circa 120 holes need to be made. With a twist-drill this task would take days so I used my Dremel and cut this killer time down to four hours. The wire used to connect the individual links is curved and somewhat soft. I removed this flexibility by heating in a gas flame (do not try this at home) then straightening the curve by rolling it between two heavy steel bearing rollers. Then, there was no problem to insert the wire pins into the holes smoothly **[pics 5, 6]**.



To act as a jig for repeatedly cutting the wire to the required length, I drilled a hole of the appropriate depth into a block of wood [pic 7, 8]. Pic 9 shows the difference between Trumpeter's plastic track links with ejector-pin marks and Friulmodel's metal link.

I wasn't sure if the suspension springs, only realised by the manufacturer from the front, would be visible when one peeped under the hull, so I completed the springs from the reverse side as well. For this, I used a piece of a wire, applied filler and finally glued the bent wire in place [pics 10, 11]. There is an ugly rim around the road wheels, but cleaning them off took a leisurely hour in front of the television [pic 12]. The fit of all the road wheels, sprockets and idlers on their pins is so precise that there was no need to glue them.

As one of the stowage items, I decided to use a spare road wheel, which I had to make because the manufacturer supplied just the basic set. First, I imprinted the original wheel in Instant Mold and then filled the cavity with Milliput [pic 13]. As another improvement, I fitted small, circular firing ports on the sides and back of the casemate through which the crew could shoot or throw grenades if necessary [pics 14, 15]. Inside the fighting compartment I glued the heads of the soldiers whose faces can be seen through the ports when open [pic 16].

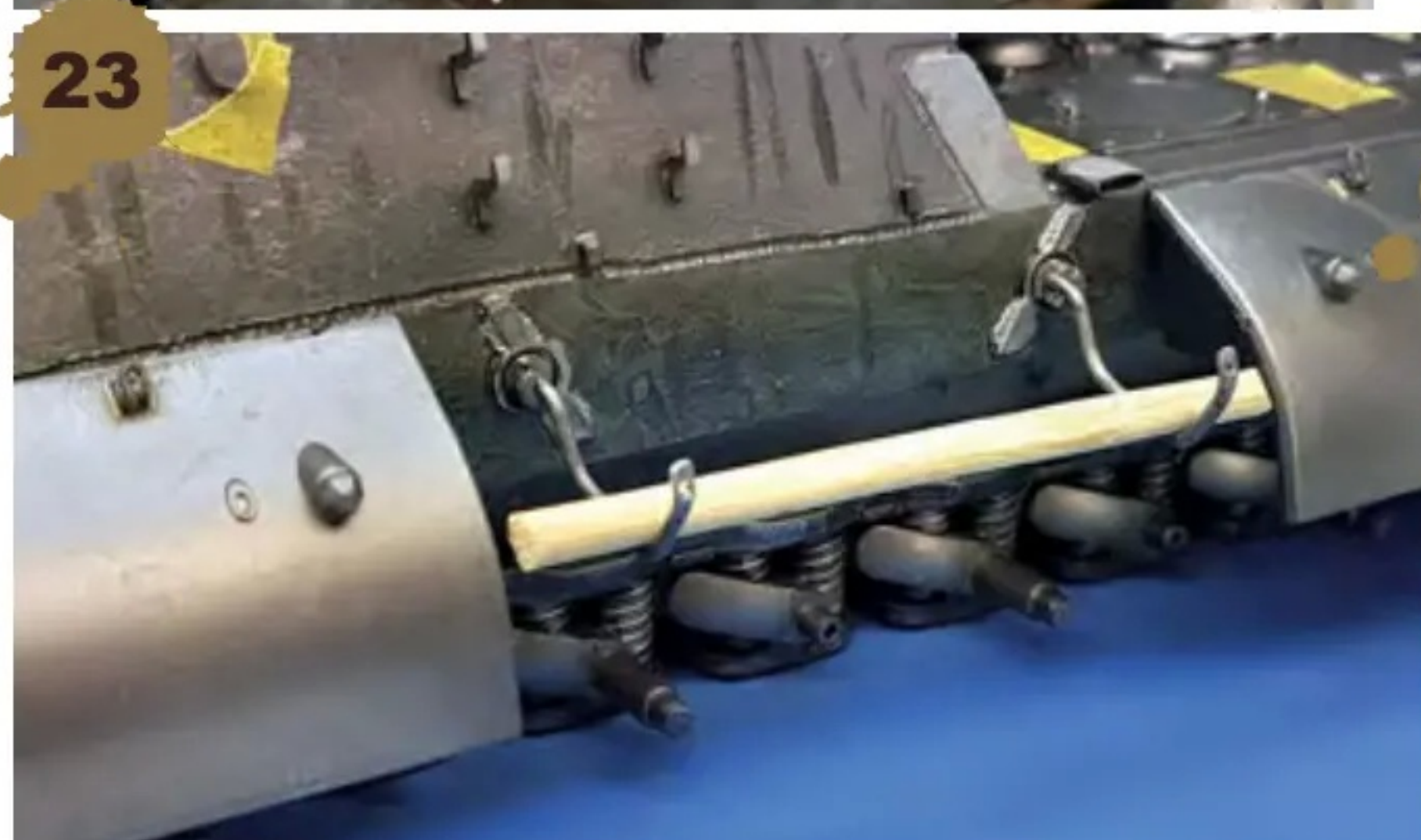
I increased the defensive capabilities of the tank with close defence weapons in the form of a pair of scratchbuilt smoke dischargers (type NbKWrf39). Small cylindrical rollers from a bearing were used as the grenades [pic 17]. I used Evergreen profile No.211 to built a ladder, a necessity to access at the upper parts of the vehicle. The ladder was hung on the back of the superstructure [pic 18].

The next step was the detailing of the hull. I guess the casemate was welded to the bottom of the hull which I represented with a weld. First I soaked the surface several times with toluene to soften plastic and then depicted the seam with a flat chisel. The unevenness of armour plating that makes up the superstructure's surface, glacis and hull sides was portrayed by scratching into the softened plastic to and fro with a wire brush and various sharp tools [pic 19].

The 'saukopfblende' mantlet was originally cast from steel, so I represented the unevenness of the texture with help of Tamiya Extra Thin Cement as a softener, followed by a thicker layer of Mr Dissolved Putty [pic 20]. I drilled through the circular stubs for the optional spaced side-armour, then threaded and glued two rods of the same diameter as the holes in stubs to the insides of the side armour plates. Finally, I slid the schürzen skirt armour into place, onto the stubs designated for them. This allowed me to present the tank either with or without schürzen [pic 21].

Fortunately, Friulmodel was not stingy with the track links, so I was able to add other distinctive detail. I attached the spare track links to the front of the hull using a flat strip secured by two wedges. This provides a few extra centimetres of armour that could mean difference between life and death [pic 22].

On the right side of the StuG, I dropped the middle part of the schürzen set and replaced it with a makeshift wire basket supported by two bent rods as the hangers whose use is versatile, e.g. as a rack/basket for spare parts [pics 23, 24]. ➤



"FRIULMODEL WAS NOT STINGY WITH THE TRACK LINKS, SO I WAS ABLE TO ADD OTHER DISTINCTIVE DETAIL..."

25



26



27



28



PAINTING AND WEATHERING

I prefer to paint my models in sub-assemblies because it is much easier [\[pic 25\]](#). I began with AK Interactive Primer Rust (AK184) and One Shot Primer Black (MIG2023) sprayed on all surfaces to make a strong base for the paints. Both were thinned with Mig Productions 2000 thinner for smoother airbrushing. For my base-coat I used three metal colours, namely Vallejo Steel (77.712), Silver (77.724) and Burnt Iron (77.721), all mixed in varying ratios, and thinned a little with Tamiya X-20A Acrylic Thinner. I used them alternately from area to area to simulate different colour tones depending how light hits the surface [\[pic 26\]](#).

Followed heavy speckling with Vallejo Panzer Aces Light Rust then Vallejo Model Color → Dark Vermilion, White, Flat Yellow, Dark Sea Blue, Medium Blue next AK Crusted Rust Deposits, AK Light Crusted Rust Deposits, AK 305 Streaking Grime and finally Vallejo 721 Burnt Iron. Seems to enough but the more the better for colour diversity. By the way I speckled using flat and tooth brushes outside due to the enormous mess [\[pic 27\]](#).

The next step was mute down the speckling with a mixture of heavily thinned metallic paints. Vallejo Steel and Silver was applied to the surface, pre-moistened with Vallejo Thinner (71.161) and let to spread into the surroundings by capillary action. Before drying, I corrected it with a large soft round brush. After they had all dried thoroughly, two colour 'filters' were applied several times and for this I switched back to Abteilung oils Flat Yellow

29



30



31



(010) and Intense Blue (235). Between each layer I allowed some time for drying **[pic 28]**.

In the next stage, I used the 'salt method' to give the fenders and wheels a rusty look. I wetted them with water first, then sprinkled the parts with coarse sea salt, airbrushed Vallejo Panzer Aces Light Rust 301 over and after the paint dried, brushed off the salt crystals **[pics 29, 30]**. Time for camouflage

First I masked off the periscopes and areas not intended for this shade of XF-71 Cockpit Green. I used Tamiya masking tape, and for curved areas the excellent MIG Camouflage Masking Putty **[pic 31]**. The green paint was airbrushed only on certain upper surfaces and the back schürzen. Moreover, on the front glacis, I used a rough crystal salt and dry perforated horseradish leaf as the maskers for more variety pattern **[pics 32, 33]**.

On the side schürzen I sprayed my chosen colour camouflage pattern with Tamiya XF-2 Flat White, XF-17 Sea Blue and XF-71 Cockpit Green colours. Abrasion due to contact with the surrounding environment was achieved using the 'hairspray technique'

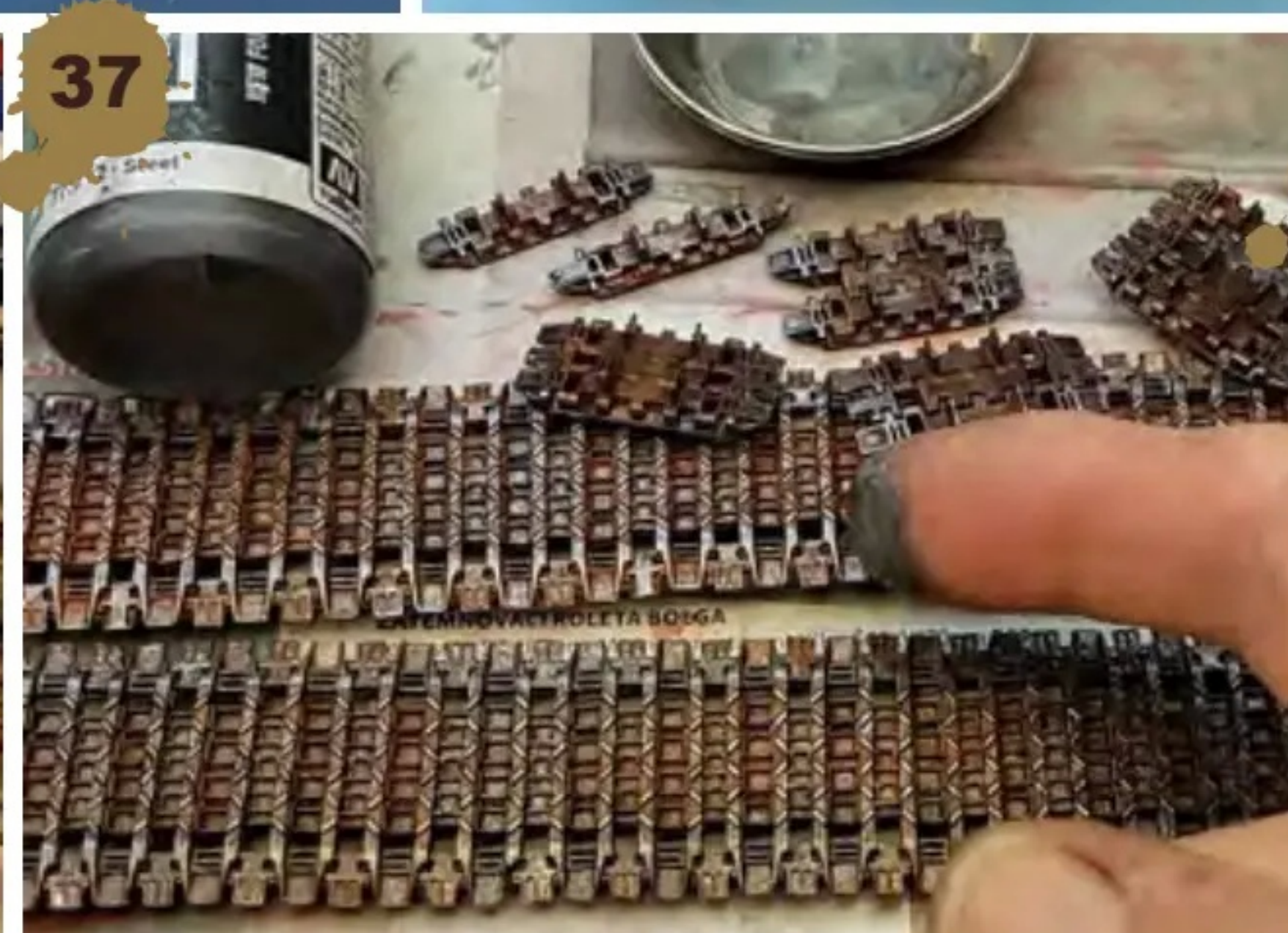


[pics 34, 35]. I first treated the tracks with two shades of colour-wash mixed from Light Vermillion, Yellow, Zinc White, Dark Brick Red and Caput Mortum oils. I don't remember the exact ratio, I added colours until I was satisfied **[pic 36]**.

After 'wash' had dried, the protrusions of the tracks that come into contact with the surface were run over with my finger, dipped in Vallejo (77.712) **[pic 37]**. Tamiya X-27 Clear Red and X-23 Clear Blue in conjunction with Mig Productions Acrylic Crystal (MIG-0094) were used to depict the Night Vision FG1250 device's lenses. For front and rear lights except X-23 as well **[pic 38]**.

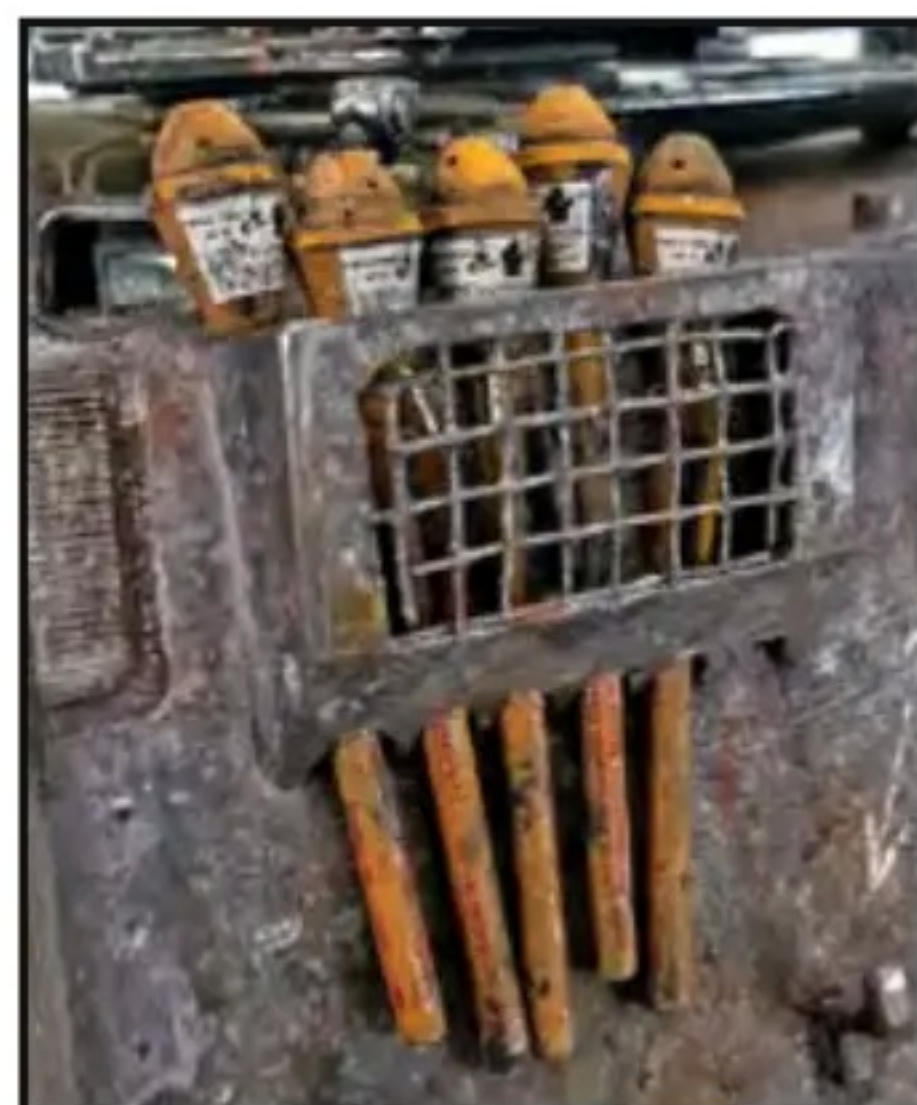
I airbrushed the barrel with a mixture of

XF-17 Sea Blue with XF-84 Dark Iron and XF-56 Metallic Grey, adding just a drop of XF-8 Flat Blue to this mixture. I sprayed a light mist of this mixture on the top of the barrel's centre, followed a thicker layer to the front, root and bottom of the barrel. All edges and welding joints were highlighted with a Faber-Castell Albrecht Dürer (silver pencil No.8200-251) plus a common graphite pencil. As the other details at the basic kit parts I also added the following items: couple of Panzerfausts; a metal ladder; Wehrmacht stereoscopic rangefinder Em1mR36. As a distinctive, eye-catching addition I stuck a hakenkreuz decal on the roof of the casemate as a designation for German Air Force. ➤



◀ FINAL WORDS

First, I must congratulate Trumpeter for their engineering and manufacturing of the impressive 1:35 StuG E-100 model kit. In particular, the seating of all wheels on the hubs is so precise that no gluing is necessary, the wheels do not slip off and it is also possible to rotate them. It is a template for new kind of modelling and a quite interesting subject apt for further modification. I worked on this project for four months, each day a piece by piece and now, can't say more than, it is the gem of my collection! •



MODELSPEC

TRUMPETER 1:35 STUG E-100 KIT NO.09542

Materials:

Injection-moulded polystyrene, waterslide decals

Paints used:

- AK Interactive: Primer Rust (AK184) One Shot Primer Black (MIG2023)
- Vallejo Acrylics: Steel (77.712), Silver (77.724), Burnt Iron (77.721), Panzer Aces Light Rust (301), Vallejo Thinner (71.161)
- Abteilung oils: Flat Yellow (010), Intense Blue (235)
- Tamiya Acrylics: XF-2 Flat White, XF-17 Sea Blue, XF-71 Cockpit Green, XF-71 Cockpit Green, X-27 Clear Red, X-23 Clear Blue, XF-84 Dark Iron, XF-56 Metallic Grey, XF-8 Flat Blue
- Oil paints: Light Vermillion, Yellow, Zinc White, Dark Brick Red, Caput Mortum
- Mig Productions: Acrylic Crystal (MIG-0094)
- Faber-Castell: Albrecht Dürer (silver pencil No.8200-251)

Availability:

Trumpeter models are widely available from good model shops and online. UK import and distribution by www.bachmann.co.uk

References:

- 2cm Flak im einsatz 1935-1945, Waffen Arsenal Band 142, Werner Müller, Podzun-Pallas-Verlag
- Flak auf dem gefechtsfeld, Band 51, Podzun-Pallas-Verlag
- Nuts&Bolts Vol.08, HF Duske, T. Greenland, F. Schulz
- Flak auf Sd.Kfz.7, G.Parada, M.Suliga, M.Żelechowski, Kagero 9 Part I
- E-100, Maxim Kolomic, Eksmo Moskva 2013

**DON'T MISS OUT ON FULL-BUILD FEATURES
OF GREAT MODELS EACH MONTH!**

Subscribe to Military Illustrated Modeller
now at: www.doolittlemedia.com



Airbrushes.com

Your UK HUB for everything to do with AIRBRUSHING!

iwata

Professional Airbrushes, Compressors, Spares and Accessories

SCAN ME



Plus, Airbrush Training Courses for Modellers!

Top brands in stock:

GodHand

LIFECOLOR
ACRYLIC HOBBY COLORS

SPARMAX

MODEL
CRAFT

BADGER

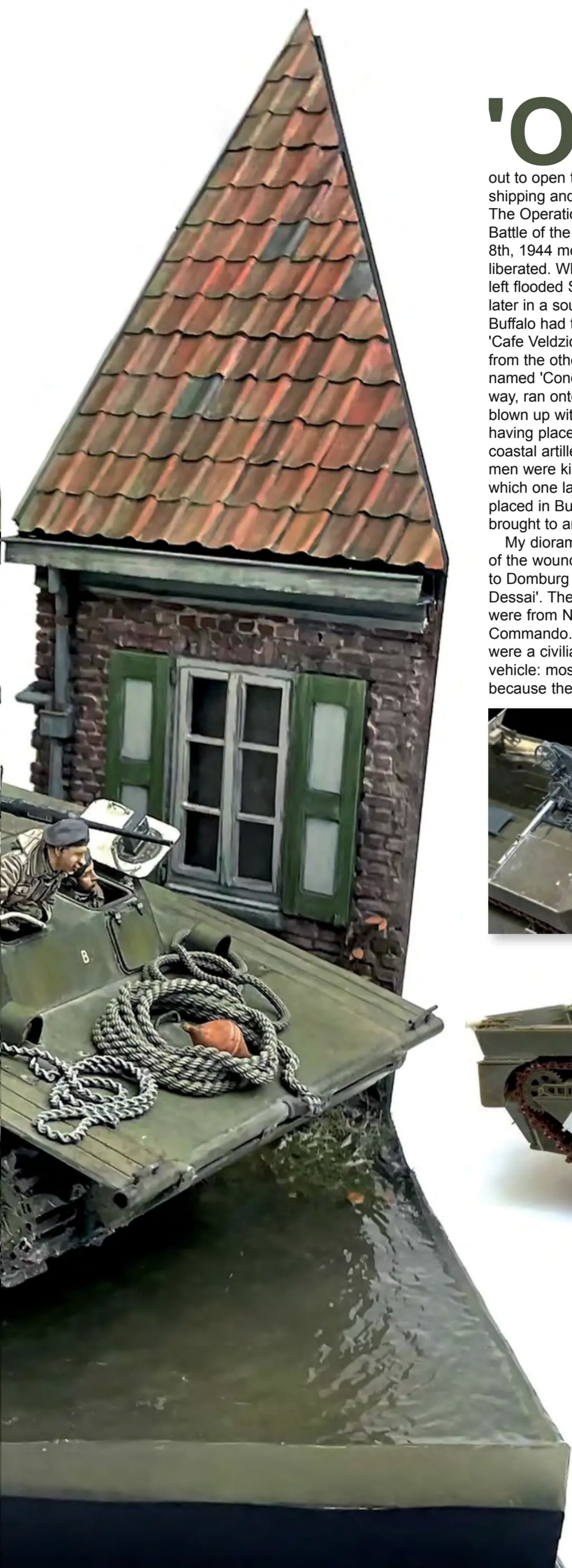
www.Airbrushes.com 01903 767800 sales@airbrushes.com

The Airbrush Company Ltd. 79 Marlborough Road, Lancing Business Park, BN15 8UF

BUFFALO SOLDIERS

Roger Hurkmans creates a diorama in 1:35 depicting a dramatic scene from the Battle of the Scheldt Estuary in The Netherlands, 1944





Operation Infatuate' took place from the 1st to the 8th of November, 1944. This Operation was carried out to open the port from Antwerp to shipping and relieve logistical constraints. The Operation was part of the wider Battle of the Scheldt and On November 8th, 1944 most parts of Walcheren were liberated. When a column of Buffalo LTVs left flooded Serooskerke fifteen minutes later in a southerly direction, the first Buffalo had to move up to the level of 'Cafe Veldzicht' for a boat of that came from the other side. The second Buffalo, named 'Conqueror', did not have to give way, ran onto a submerged shell and was blown up with some force, the Germans having placed a large shell from the coastal artillery as a boobytrap. Nineteen men were killed and nine wounded of which one later died. The wounded were placed in Buffalo 'Coup Dessai' and brought to an aid post at Domburg.

My diorama depicts the transportation of the wounded soldiers, being moved to Domburg by the LVT named Coup Dessai'. The soldiers being transported were from No.48 (Royal Marine) Commando. The LVT is passing a house where a civilian is watching the passing vehicle: most people lived in the attic because their houses were flooded.

LVT-4 BUFFALO

The first time I built a diorama with a Buffalo in Walcheren was thirty-five years ago. At that time, there was no kit available yet so the only way to build one was by scratchbuilding the model from plastic sheet. Now I wanted to build another LVT with what's available on the market nowadays. The LVT-4 Buffalo is available from Italeri and AFV Club, and I decided to use the latter model because it's the best quality. And because I wanted to build a British version, I had to make some adjustments.

Because only the early model were used at Walcheren, I had to change the front hatches, which should be on the same level. Luckily this part was available from Tiger Models in the US (**pic 1**). I also had to add extra armour plates on the sides of the hull and these can be made easily from 0.5mm plastic sheet (**pic 2**). Enclosed with the kit are one-piece rubber tracks and they needed to be replaced by workable tracks. In my opinion the individual-link tracks from AFV Club are the best available, but the only problem is that each track is made out of five pieces and only can be assembled with a lot of patience.

The biggest challenge was the 20mm Polsten gun. I bought the Resicast gun thinking it was correct, but after building the gun however, I noticed the kit was incorrect when compared to the real Polsten gun. The biggest problem was that the gun was 1.5cm too long. When visiting the SMC model show I met the Italian guys from HD Models and discussed my problem with them. They promised me they could produce a correct Polsten gun within a few weeks. And indeed, after sending them all the details, within two weeks I received a very well detailed, 3D-printed model together with ammo and ammo-boxes (**pic 3**). ➤



← THE FIGURES

The Royal Marines Commandos were wearing the Denison Smock and I used several brands for these figures: Black Dog, Dynamo and Dragon, and they all needed to be converted to the desired pose for this scene. For the heads, I used items from Hornet with the Commando-style stocking caps. Only the figure with the Green Beret was taken from the Alpine range. The Commandos not wearing a Denison Smock are also from Alpine as is the LVT crew. The figure wearing the leather Jerkin is an adjusted MiniArt figure. The civilian hanging out of the window is a converted Verlinden figure with a Hornet head (**pics 4, 5**).



PAINTING THE BUFFALO

The Buffalo was first primed with Tamiya XF-1 Flat Black, then a coat of different tones of olive drab were applied. For the decals I used a set from Star Decals originally made for a British LVT-2 model. The 'Coup Dessai' decal was made by a friend. Weathering was done with oil paint and for this I used van Dijck brown and raw umber. To simulate the dust I also used buff and flesh oil paints which worked perfectly for this.

For weathering the tracks I only used water-based pigments, because other modellers who used spirit-based products on their tracks had said the solvent had melted the small pins within the tracks causing them to fall apart (**pic 6, 7**). The mud between the tracks was created with AK Muddy Ground. When this was dry, the same colour pigments were applied to the mud to create a bit variety (**pic 8**).





PAINTING THE FIGURES

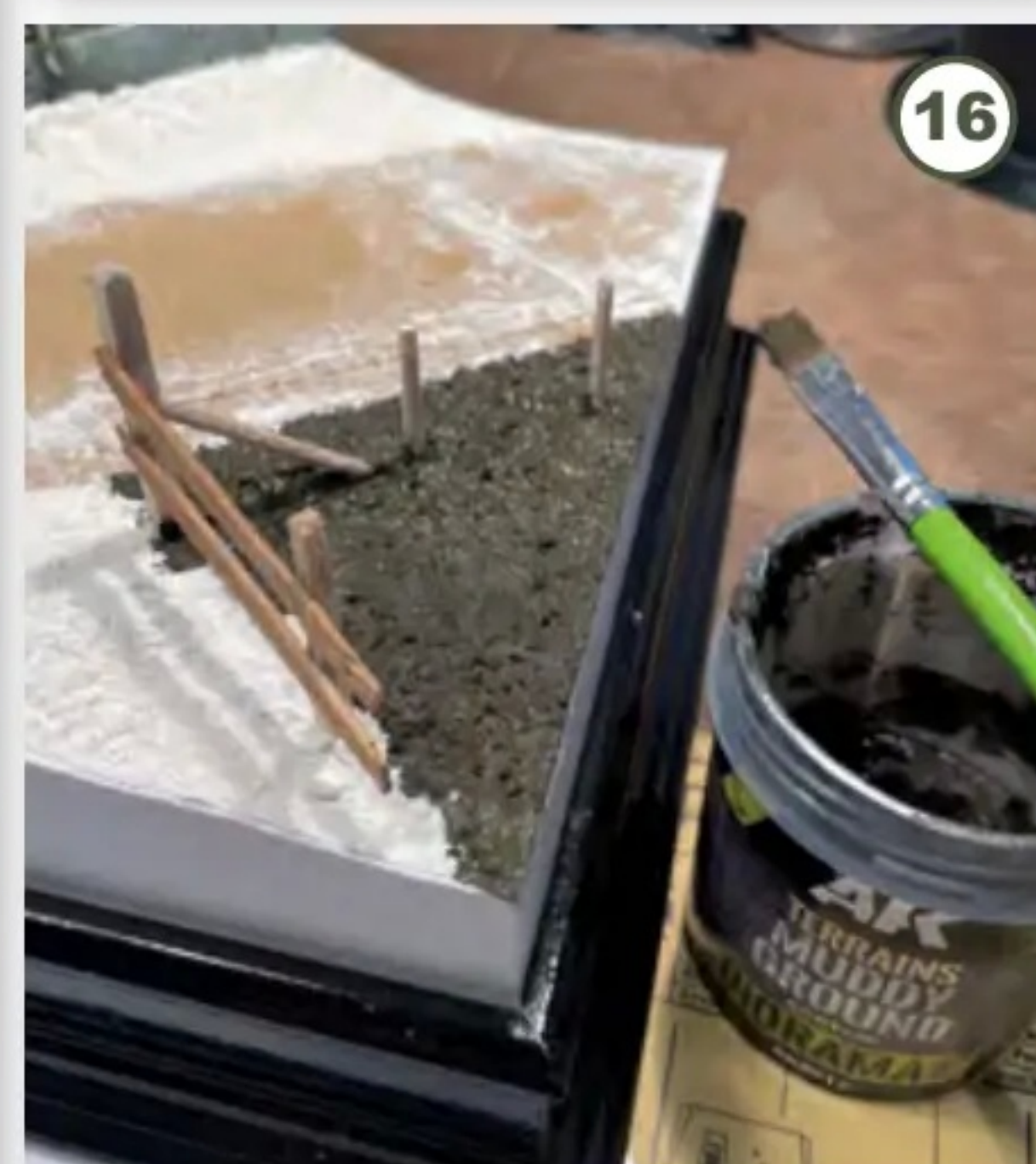
I always start painting my figures by spraying the base colours with an airbrush. First matt black was applied, next a base colour was sprayed from above to create the first shadow effect. When this is done the skin parts are painted with Vallejo flesh colour. I have to do this because I paint the skin parts with oil paint. The big advantage with oil paint is that you can easily blend the different tones in each other. Disadvantage is that the drying time is much longer than acrylic paint. Uniform highlights, shadows and gear was painted with AK Interactive 3G acrylics (pic 9, 10). ➔



◀ HOUSE AND BASE

For this dio I needed a typical Dutch house. After making a sketch I cut the walls out of Styrodur (Bluefoam) and next, I carved the bricks into the foam with a sharp knife. To add a little variety to the wall I pressed on several bricks with a plastic piece in the size of one brick. This way the wall didn't look too smooth. The roof-tiles are from Dio-Dump and only needed to be cut to the right size. The windows are from Plus Model and the drainpipes, gutter and venders are custom made from plastic (**pics 11, 12**).

The house was then sprayed in several shades of red-brown and to simulate the mortar, I applied a mixture from strong diluted plaster (**pic 13**). The excess was removed with a soft cloth and details were painted with acrylic paint. The Dutch advertisements are from Reality in Scale (**pic 14**). To create the base I also used foam. The cobblestone road is an old item from Verlinden Productions (**pic 15**) and some filler was used to bring the groundwork and road together. When this was dry I applied a layer of AK Interactive Muddy Ground mixed with some fine sand to create more texture (**pic 16**). When this was done, more fine sand, grass and some leaves were affixed with diluted wood glue (**pics 17, 18**).



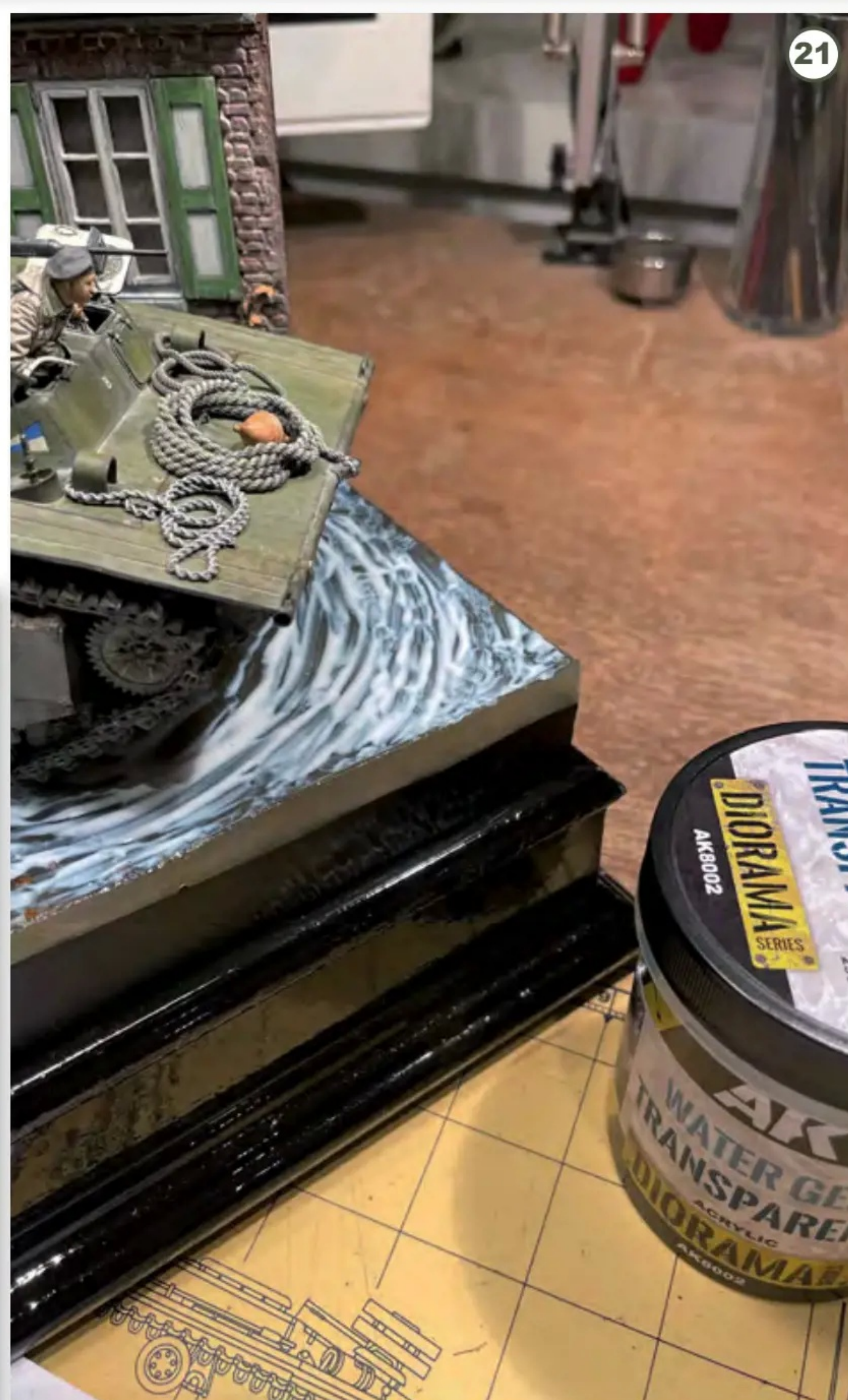
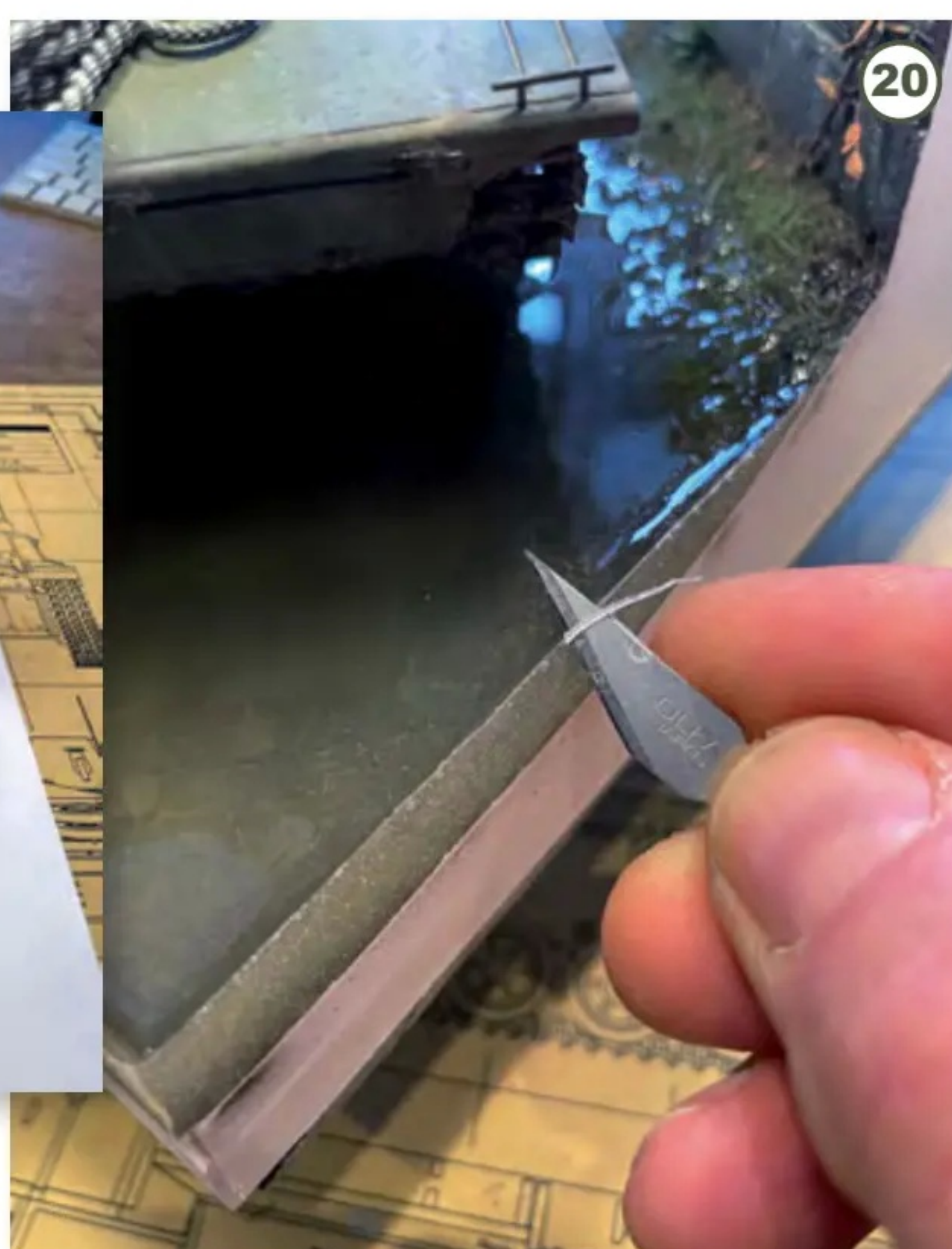
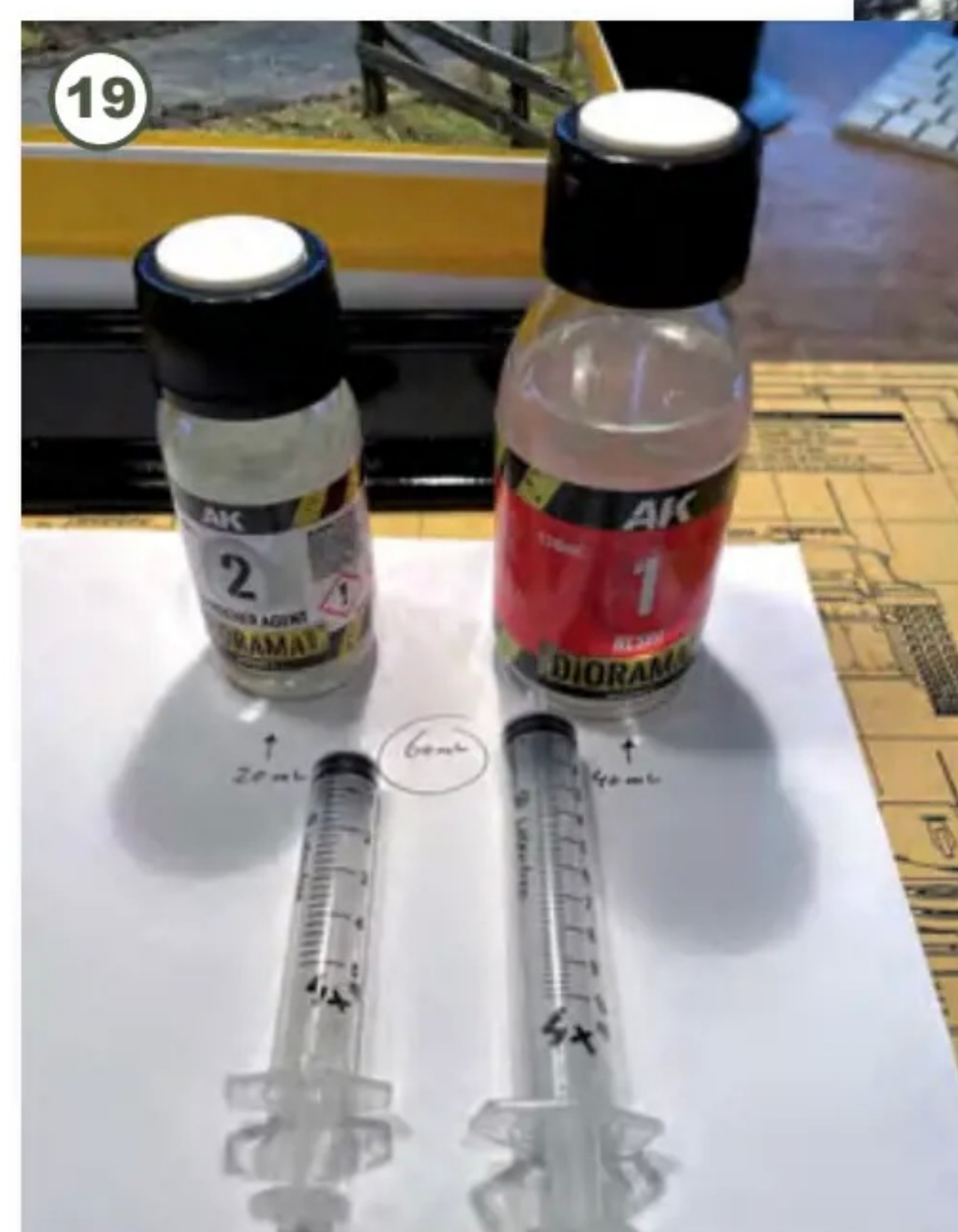


TIME FOR THE FLOOD...

The biggest challenge of the entire diorama was making the water. The sides of the base were first taped up with Tamiya masking tape. To simulate the water I used AK Interactive Resin Water for the first time. Its very important to mix the resin with the hardener in the right quantity otherwise the resin remains sticky (**pic 19**). A drop of Tamiya Olive Drab was added for the colour. Only a small amount of paint is needed, this way it keeps the

resin more or less transparent. At this stage the LVT was placed on to the base, in the water (**pic 20**).

When hardened, the resin is smooth like a mirror, so to make some small waves I used AK Interactive Water Gel Effects which can be applied with a soft brush. When applying the gel it's white but when dry, it becomes transparent (**pic 21**). Finally, some tools were placed around the house and a godwit bird, a species typical for this area, was fabricated and placed on the fence. ➔



◀ I really enjoyed working on this diorama, specially because its a subject from the country where I live and it fits well in the eighty years of freedom which will be celebrated this year. I want to thank the guys from the Dutch Twenot forum for helping me with all the information I needed for this project. I would especially like to thank Fabio Mosca from HD Models for producing the Polsten gun. Without him I never could have achieved this final result. •



MODELSPEC

AFV CLUB 1:35 LVT-4 WATER BUFFALO
(EARLY TYPE) • KIT NO.AF35205

Materials:

Injection-moulded polystyrene, photo-etched brass, waterslide decals

Paints and materials used:

- Tamiya Acrylics: XF-1 Flat Black, XF-62 Olive Drab
- AK Interactive: 3G Acrylics, Muddy Ground, Resin Water, Water Gel Effects
- Vallejo Acrylics: Flesh
- Oil paints: van Dijck brown, raw umber

Accessories used:

- AFV Club: Water Buffalo LVT Track (Workable) AF35226
- HD Models: 20mm Polsten Gun (2 in 1) with option field modification (HDM35220)

Availability:

- AFV Club models are widely available from good model shops and online. UK import and distribution by www.bachmann.co.uk
- Dio-Dump: www.diodump.com
- Reality in Scale: www.realityinscale.com
- Plus Model: www.plusmodel.cz
- HD Models: www.hdmodels.it







Canadian combat medics constructing a field hospital, Walcheren Dyke, Battle of the Scheldt, 1944
Photo: Provincial Archives of Alberta



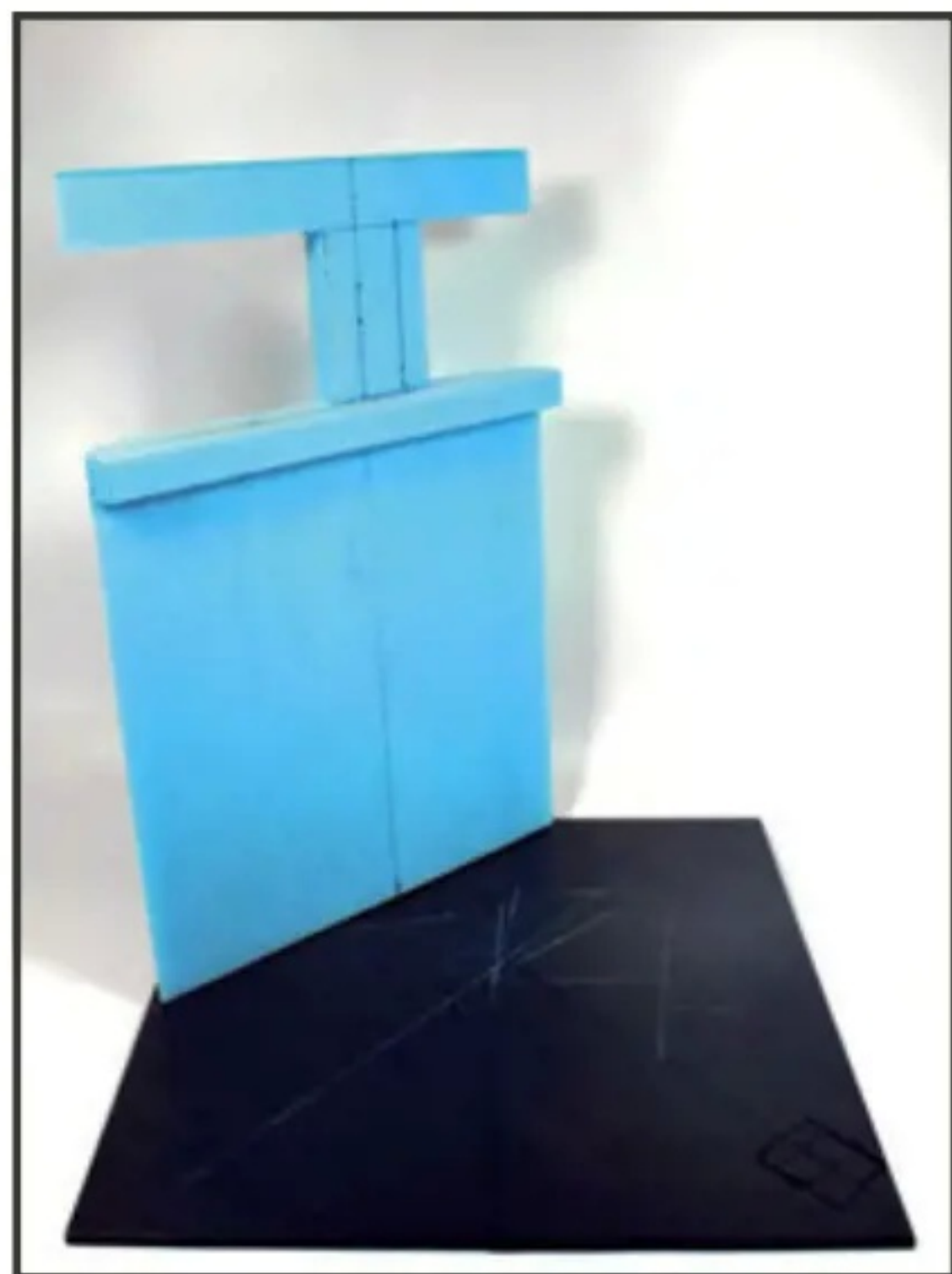




GHOST FACTORY

Javier Redondo recreates a scene from an abandoned Tiger II factory in Germany at the end of the Second World War

The Tiger II was built by Henschel & Sohn at its Kassel-Mittelfeld factory. In the same city, Wegmann assembled the turrets, and Krupp in its Essen factory mainly manufactured the hull which was then sent to Henschel for finishing and final assembly. The orders were to build fifty units per month, but that number was never reached due to the effective Allied bombing campaign against German industry. In total they managed to build 489 units until March 1945, when a series of bombings in the Kassel area and surrounding areas left the production lines completely destroyed. By the time the 1st North American Army arrived in the Kassel area in April of that year, they found numerous Tiger II hulls and turrets in the facilities that had not been completed. Starting from these historical references, I designed the scene...



With the polyethylene foam, I shaped the factory structure with a diagonal design, placing it on a 20cm x 21cm base-board



I lined the internal face with a 4mm plastic card sheet, adding the crane track with H-profile. I incorporated the pavement, tracks and frames of the windows and painted it all grey



I painted each zone in its base colour with Vallejo acrylics, applied with an airbrush



With a sepia tone of oil paint diluted with white spirit, I outlined the structure, details and indentations and also simulated vertical dirt streaks. I reproduced the chips and scratches on the cement with Stone grey applied with a fine brush. I added a fragment of the ubiquitous 'Rauchen Verboten' (No Smoking) sign with dry-transfer letters and a propaganda poster to encourage production



On the outside of the building I glued Tamiya embossed sheet and added the electrical wiring using 0.4mm tin wire plus a junction box built with plastic card. I painted the lower plaster in dark grey and the plaster of the windows in white, and with the help of the airbrush applied some weathering of the base colour. I then painted individual bricks randomly with a brush



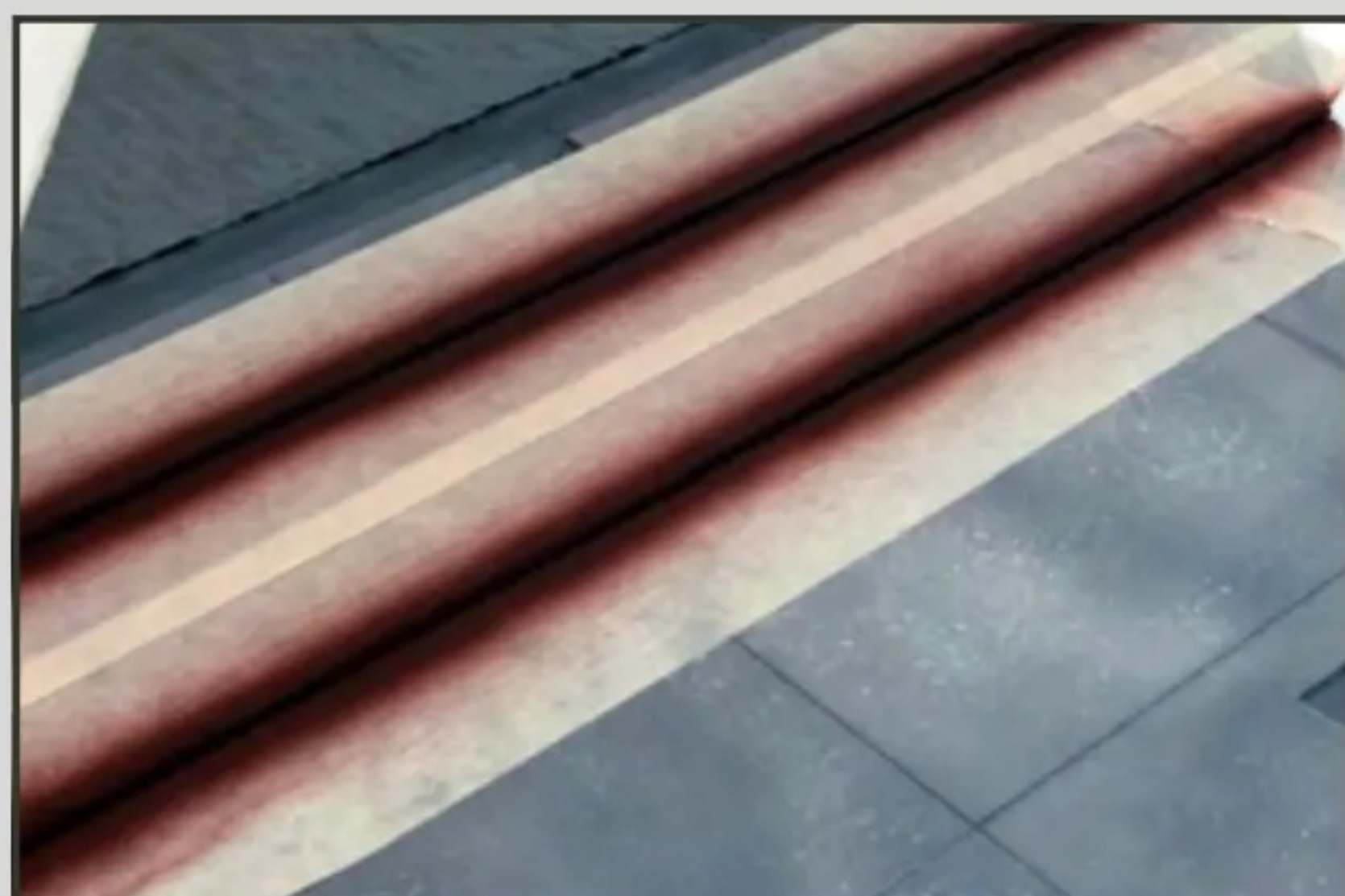
To highlight the cement between the bricks I used dry pigments



I created a building number sign with the help of an adhesive mask. I firstly painted the white background in thin and successive passes



I then painted the numeral and later protected it with a layer of matt varnish. I painted the wiring by hand with beige and the junction box in grey



I continued with the interior concrete pavement, starting by applying masking tape around the tracks then airbrushing with Vallejo Red Brown



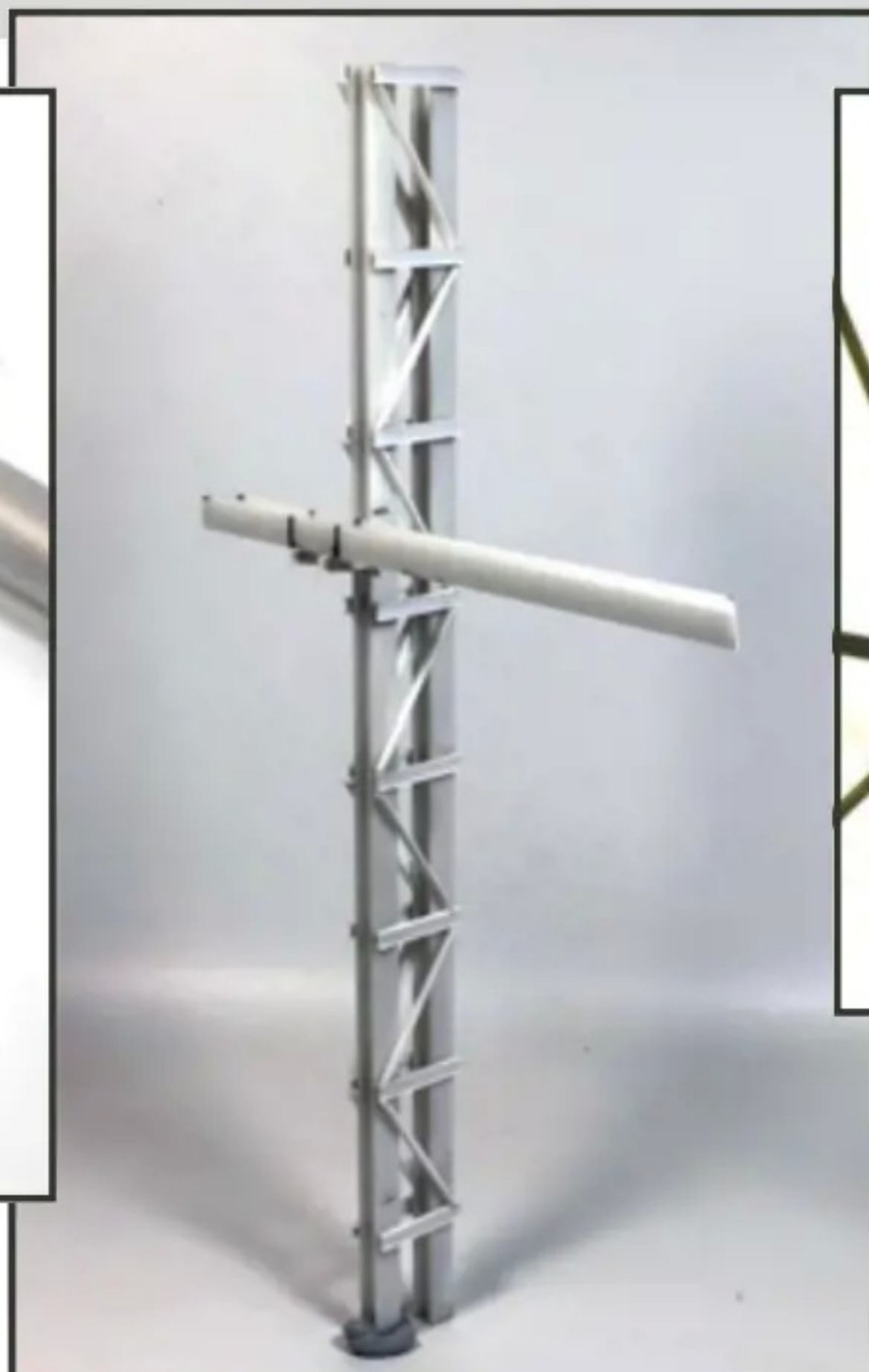
Once painted, I removed the mask and check that the trackways were perfectly delimited. Some colour-washes were applied to the concrete surface with white and light grey and then I applied pigments – in this case grey, ochre and blue tones – in their dry form



I finished the flooring by creating some splashes using grease and oil stain colours

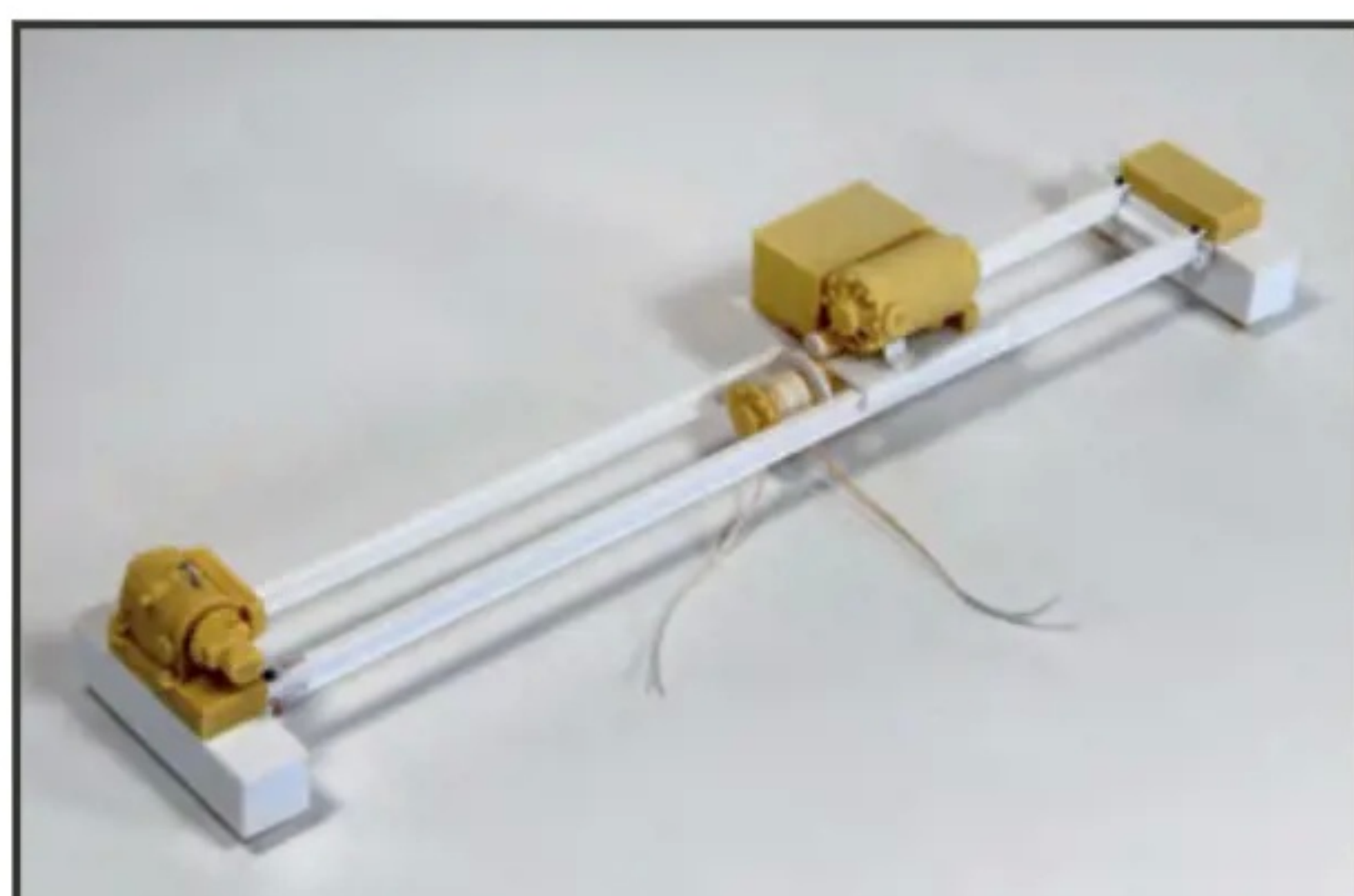


I began the construction of the beam by making a good quantity of hexagonal nuts using plastic card and a punch-and-die set

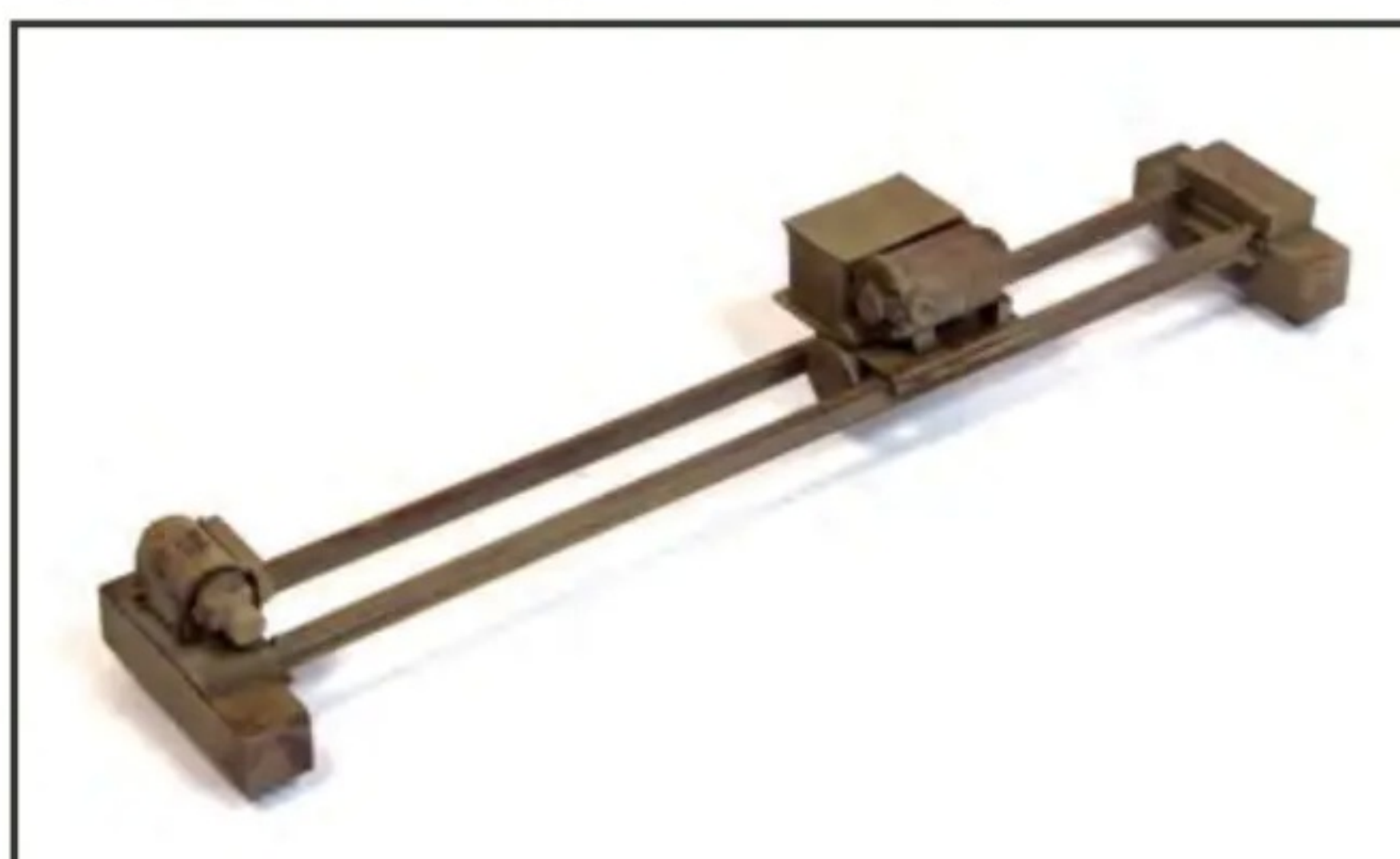


Once all the pieces had been cut to size, I glue the struts on the two vertical beams following a diagonal sequence. At the same time I also added the other crane track

As a primer and at the same time base colour, I use Russian Green Surface Primer and highlighted it with the airbrush using Dark Yellow



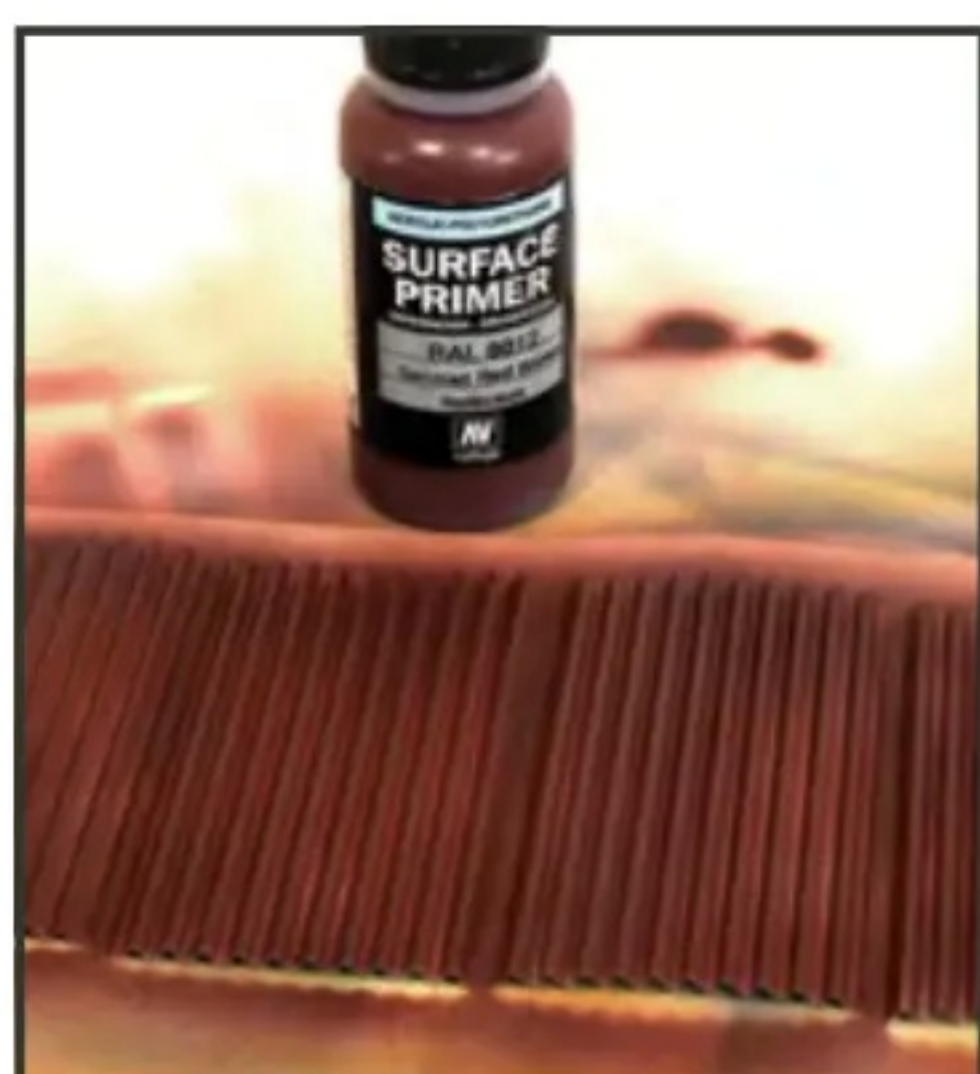
To build the bridge crane I used polystyrene profile and parts left over from other projects



I started by priming the crane in Vallejo Red Brown and then applying a generous layer of hairspray, then paint the surface with a thin layer of Dunkelgelb applied with an airbrush



I moistened the surface with warm water and then with a firm-bristled brush I rubbed in selected areas so that the previous colour appears. I then fixed the bridge crane to the tracks



For the roof I used the metal DioDump set, starting by applying a good coat of primer in Red Brown



I applied some random tones on the sheets and then brushed on a generous layer of silicone barrier over the entire surface



I sprayed a mixture of Light Grey and Ocean grey, then moistened the surface with warm water and with a flat brush, made longitudinal strokes to reduce the grey portions, repeating the process on the inside



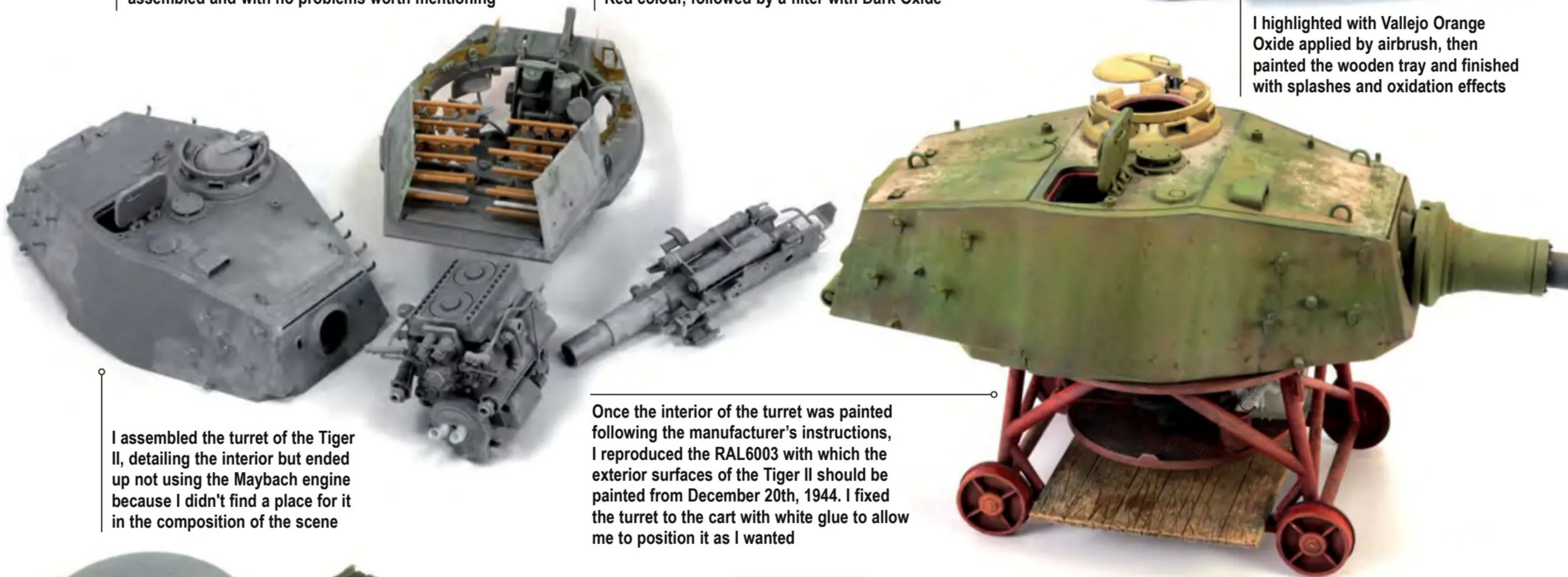
Finally, I placed and fixed in position the sheets that make up the roof



The transport stands of the Tiger II turrets are a Meng Model set composed of ten resin parts. It easily is assembled and with no problems worth mentioning

I started the painting phase by priming the piece in grey, then airbrushed a layer of Vallejo Fire Red colour, followed by a filter with Dark Oxide

I highlighted with Vallejo Orange Oxide applied by airbrush, then painted the wooden tray and finished with splashes and oxidation effects



I assembled the turret of the Tiger II, detailing the interior but ended up not using the Maybach engine because I didn't find a place for it in the composition of the scene

Once the interior of the turret was painted following the manufacturer's instructions, I reproduced the RAL6003 with which the exterior surfaces of the Tiger II should be painted from December 20th, 1944. I fixed the turret to the cart with white glue to allow me to position it as I wanted



I added some accessories to the outside of the building, to the rear. For this I use a coil of electric cable, a wooden case and a lighting fixture.

We start by priming the coil in grey, and to simulate old wood I used a mixture of Golden Brown and Black. To this base layer I add a little beige and after applying a layer of lacquer, I sprayed the outside of the coil in Vallejo Turquoise Blue

For the wooden case, I applied a brown base with an airbrush and follow the same process used on the coil, above and finally we carry out some glazes with Burnt Umber and Light grey as transparencies to differentiate the wooden planks. In the lower areas I simulated an mould build-up using Vallejo Green Wash



For the light fitting, I first applied a base layer of Vallejo Chocolate Brown



After a layer of lacquer and I applied a mixture of Vallejo Steel and Sky Grey. With a wooden stick, I simulated scratches and chips. Finally I glued the light in place and fitted its wiring to the junction box



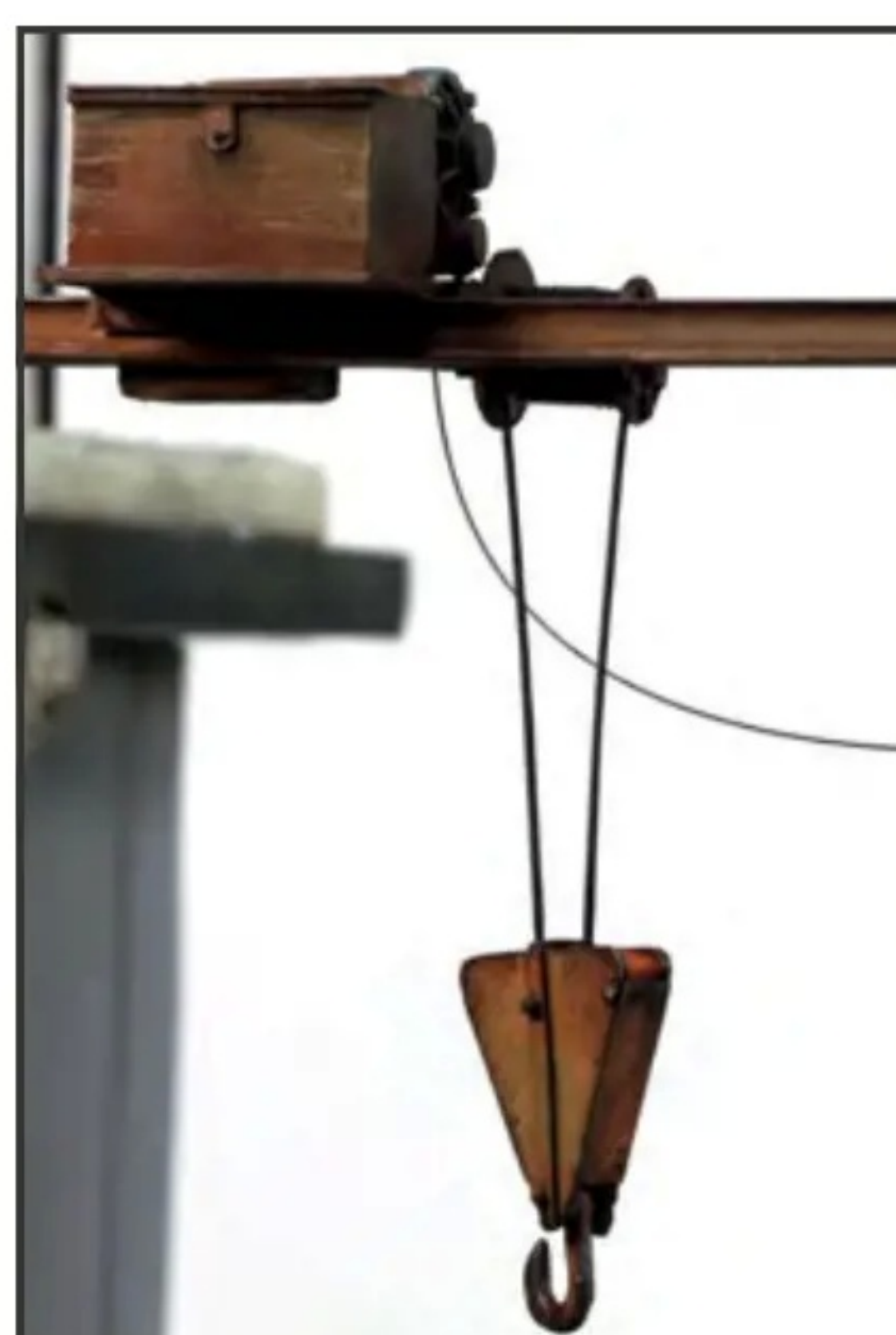
I installed the coil and the case, plus a roll of simulated wiring with 1mm lead wire, painted grey and integrated into the scene with dry pigments and some broken glass



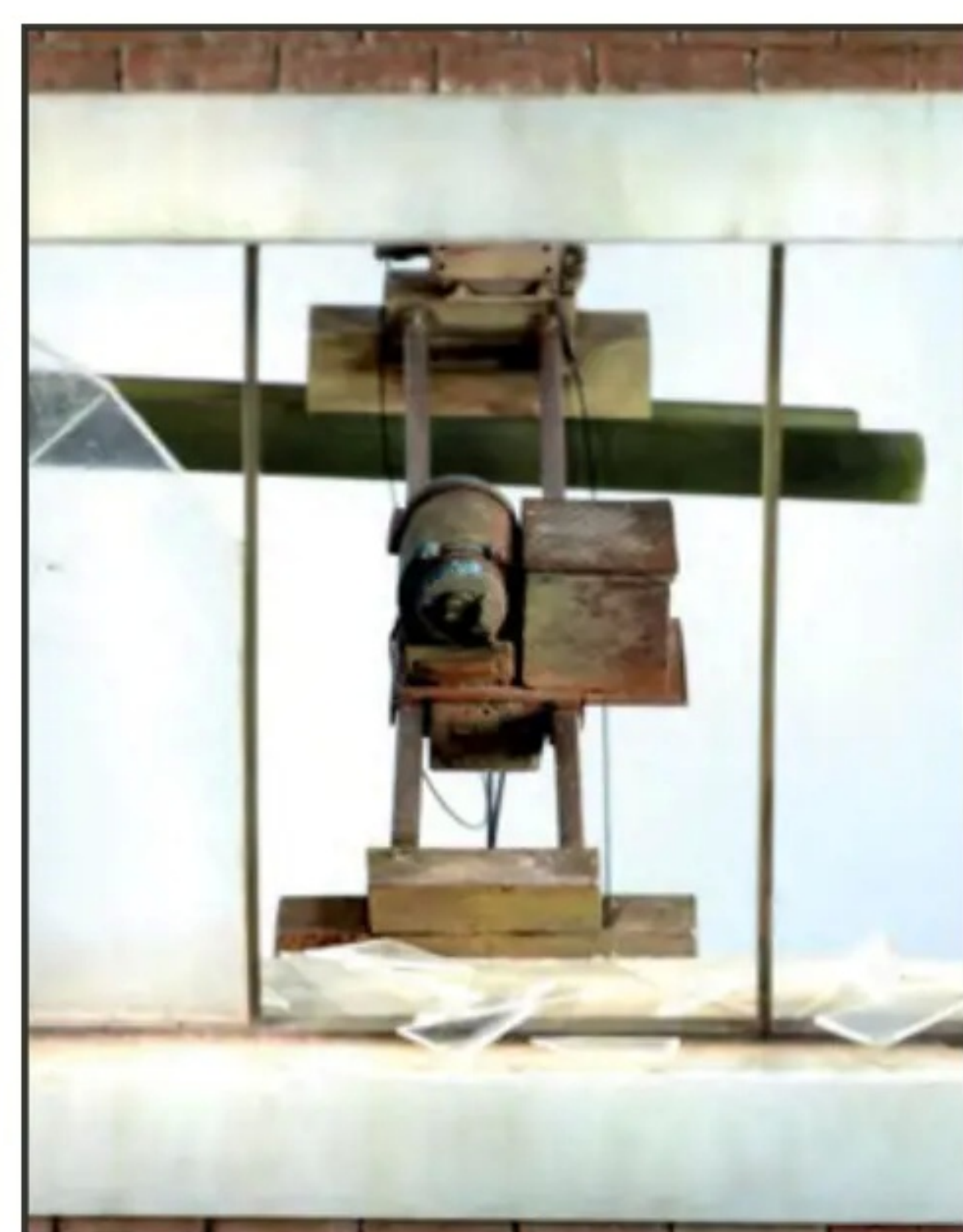
I incorporated an industrial compressor from Italeri



I also used MiniArt's scaffolding painted in yellow tones



The pulley hook was finished in a similar way to the overhead crane, gluing it into position last



Finally, I added the electrical wiring for the overhead crane



MODELSPEC

MENG MODEL 1:35 GERMAN HEAVY TANK SD.KFZ. 182 KING TIGER TURRET MAINTENANCE STAND & MUZZLE COVER KIT NO.SPS-061

Materials:

Injection-moulded polystyrene

Paints used:

Noted within the photo-captions

Accessories used:

- Alpine Miniatures: WW2 US Infantry (35170)
- Takom: King Tiger Sd.Kfz.182 Henschel Turret - Full Interior (2073)
- MacOne Models: Industrial Reels Set B (35122), Industrial Wall Lamp-post (35188)
- Plus Model: Big Transport Boxes (453)
- MiniArt: Scaffoldings (35605)
- DioDump: Corrugated aluminium Sheets (DD058)
- Italeri: Field Tool Shop 419

Availability:

- Meng Model products are widely available from good model shops and online.
www.creativemodels.co.uk
- Alpine Miniatures: www.alpineminiatures.com
- Takom: www.bachmann.co.uk
- MacOne Models: www.maconemodels.com
- Plus Model: www.plusmodel.cz
- MiniArt: www.creativemodels.co.uk
- DioDump: www.plusmodel.cz
- Italeri: www.hobbyco.net



CHAR DE BATAILLE: **CHAR B1**

Modelling references for the
French Char B1 heavy tank





The Char B1 was a French heavy tank manufactured before World War II. It was a specialised break-through vehicle, originally conceived as a self-propelled gun with a 75mm howitzer in the hull; later a 47 mm gun in a turret was added, to allow it to function also as a Char de Bataille, a 'battle tank' fighting enemy armour, equipping the armoured divisions of the Infantry Arm. Starting in the early 1920s, its development and production were repeatedly delayed, resulting in a vehicle that was both technologically complex and expensive, and already obsolescent when real mass-production

of a derived version, the Char B1 'bis', started in the late 1930s. A further up-armoured version, the Char B1 'ter', was only built in two prototypes.

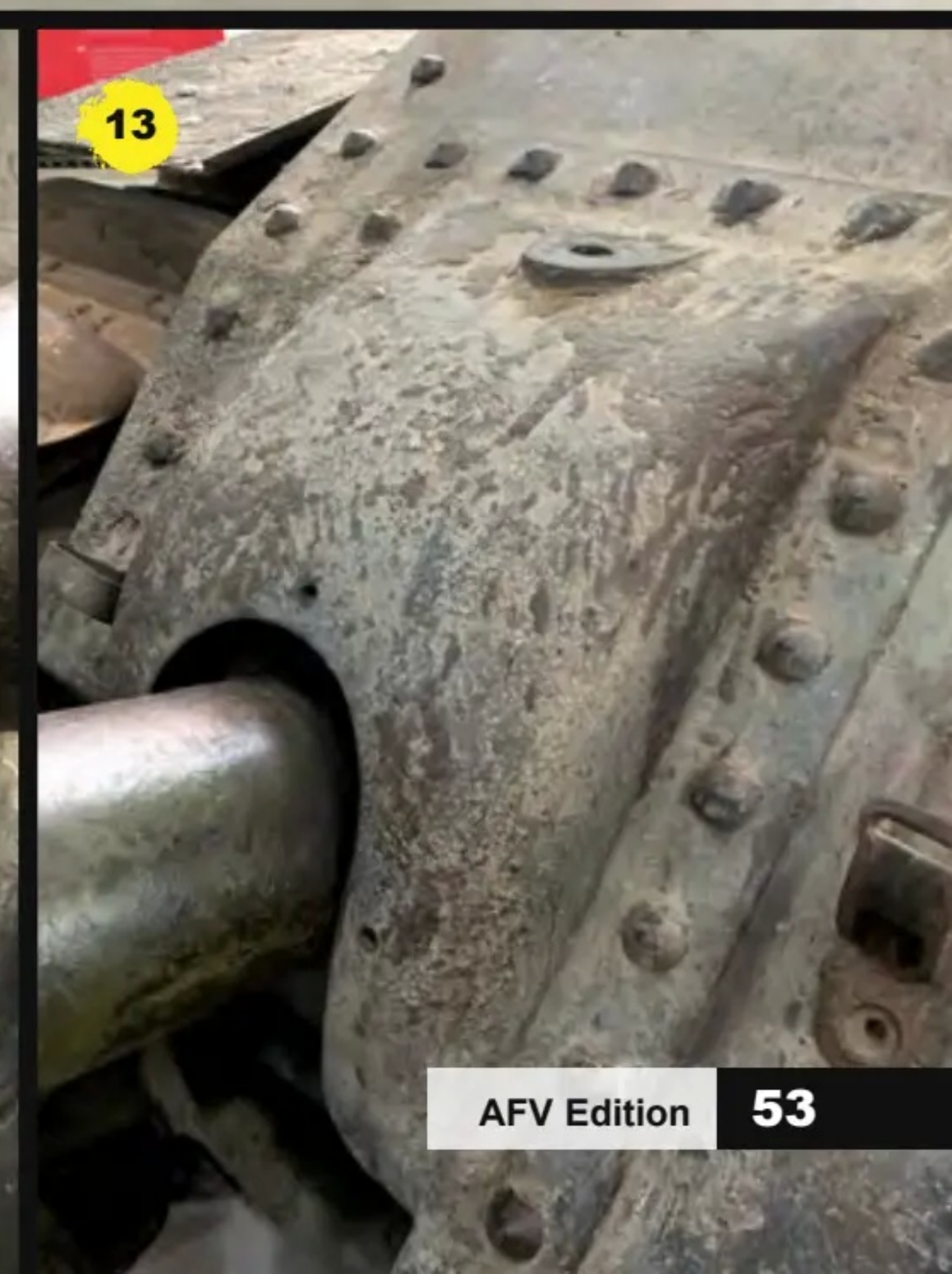
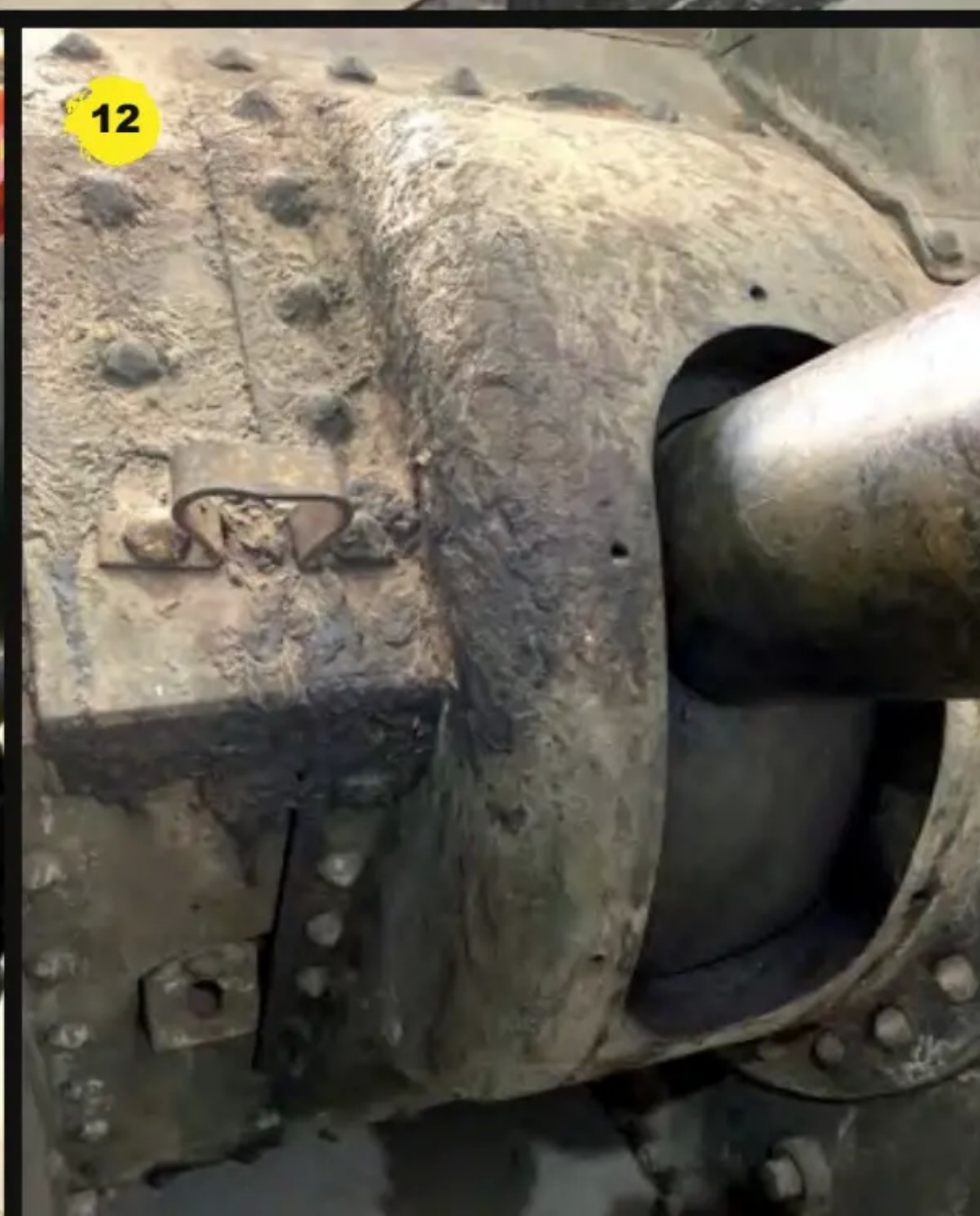
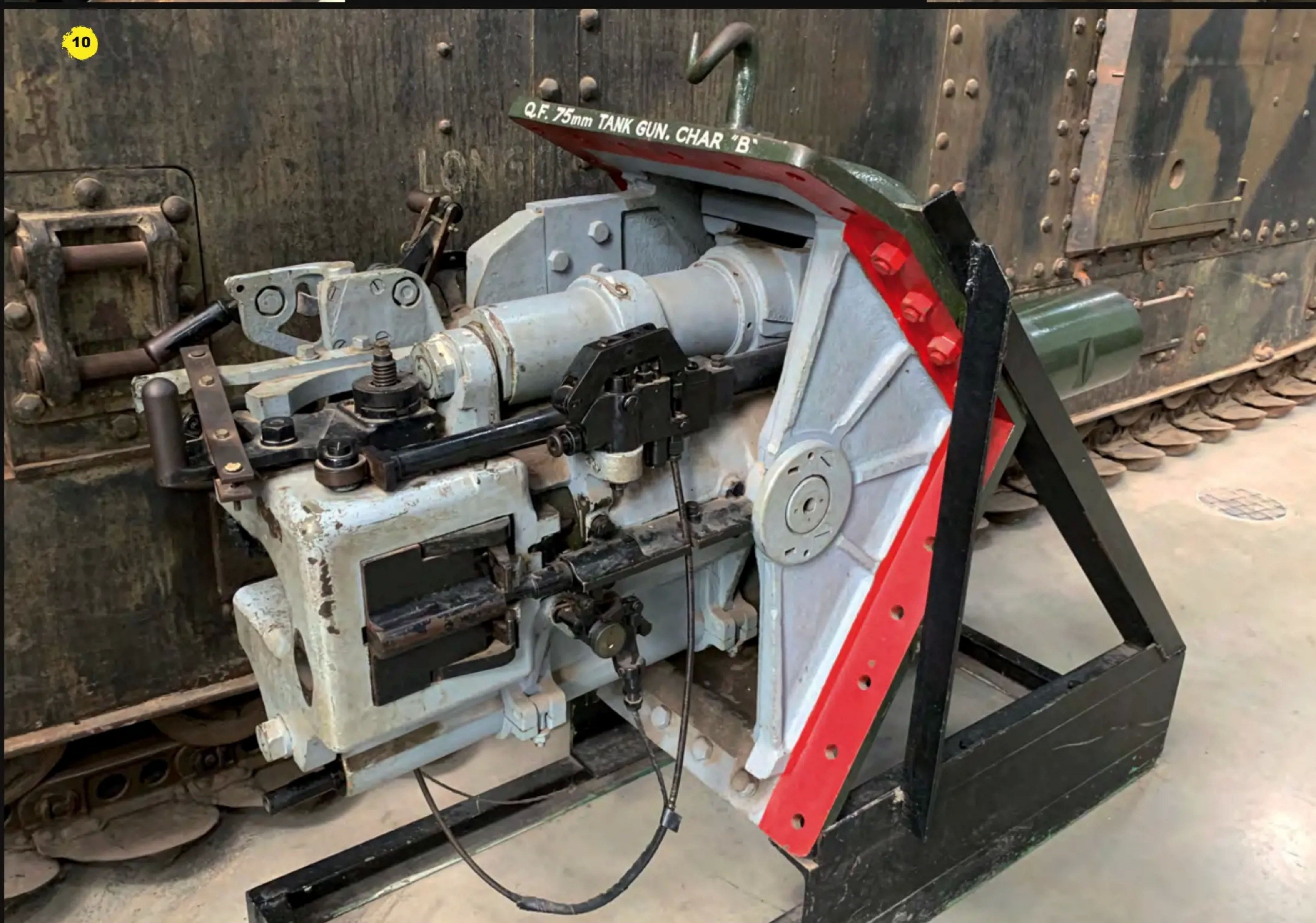
Among the most powerfully armed and armoured tanks of its day, the type was very effective in direct confrontations with German armour in 1940 during the Battle of France, but low speed and high fuel consumption made it ill-adapted to the war of movement then being fought. After the defeat of France, captured Char B1 (bis) would be used by Germany, with some rebuilt as flamethrowers, Munitionspanzer, or mechanised artillery (*History edited from Wikipedia*). •

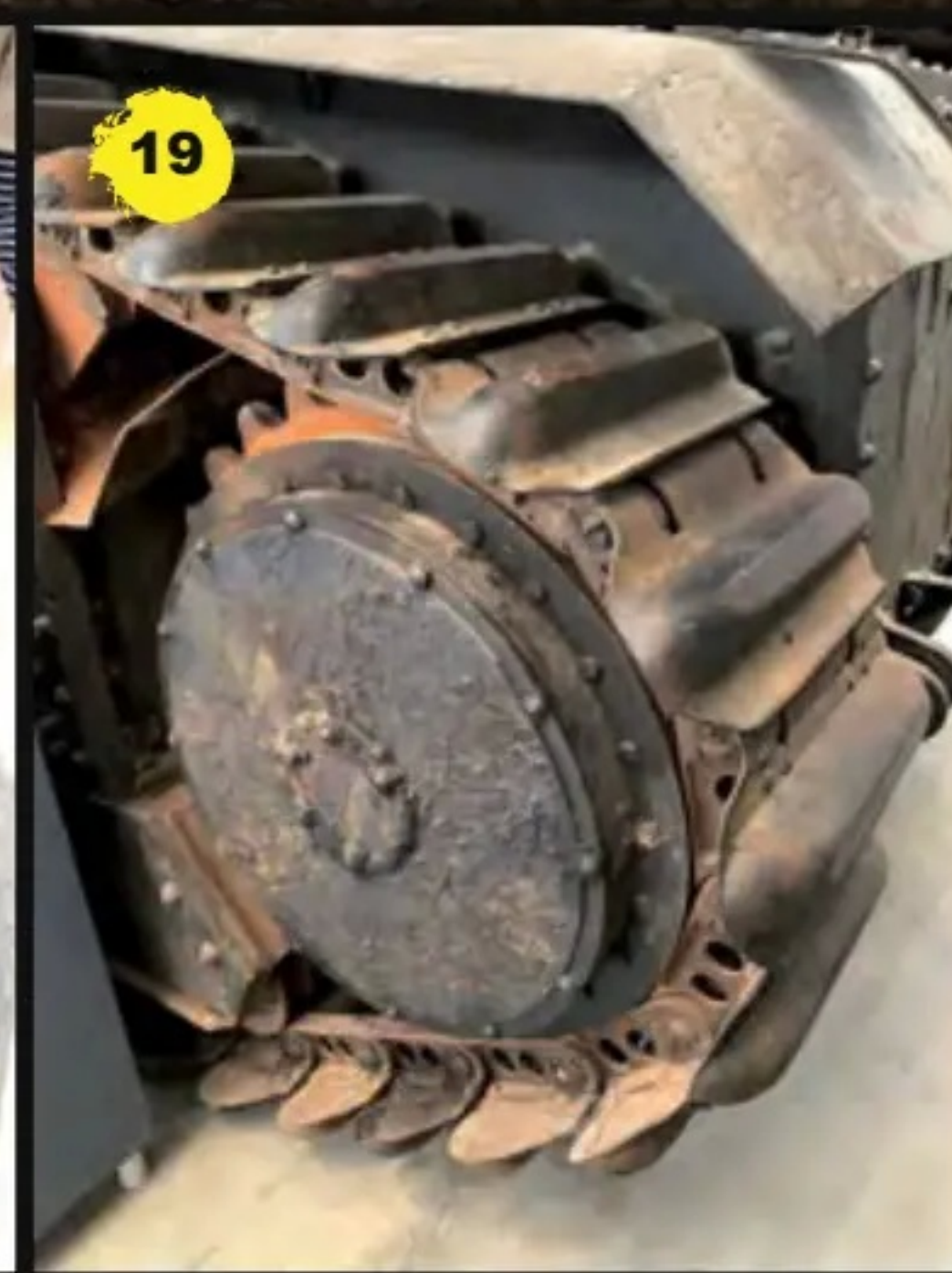
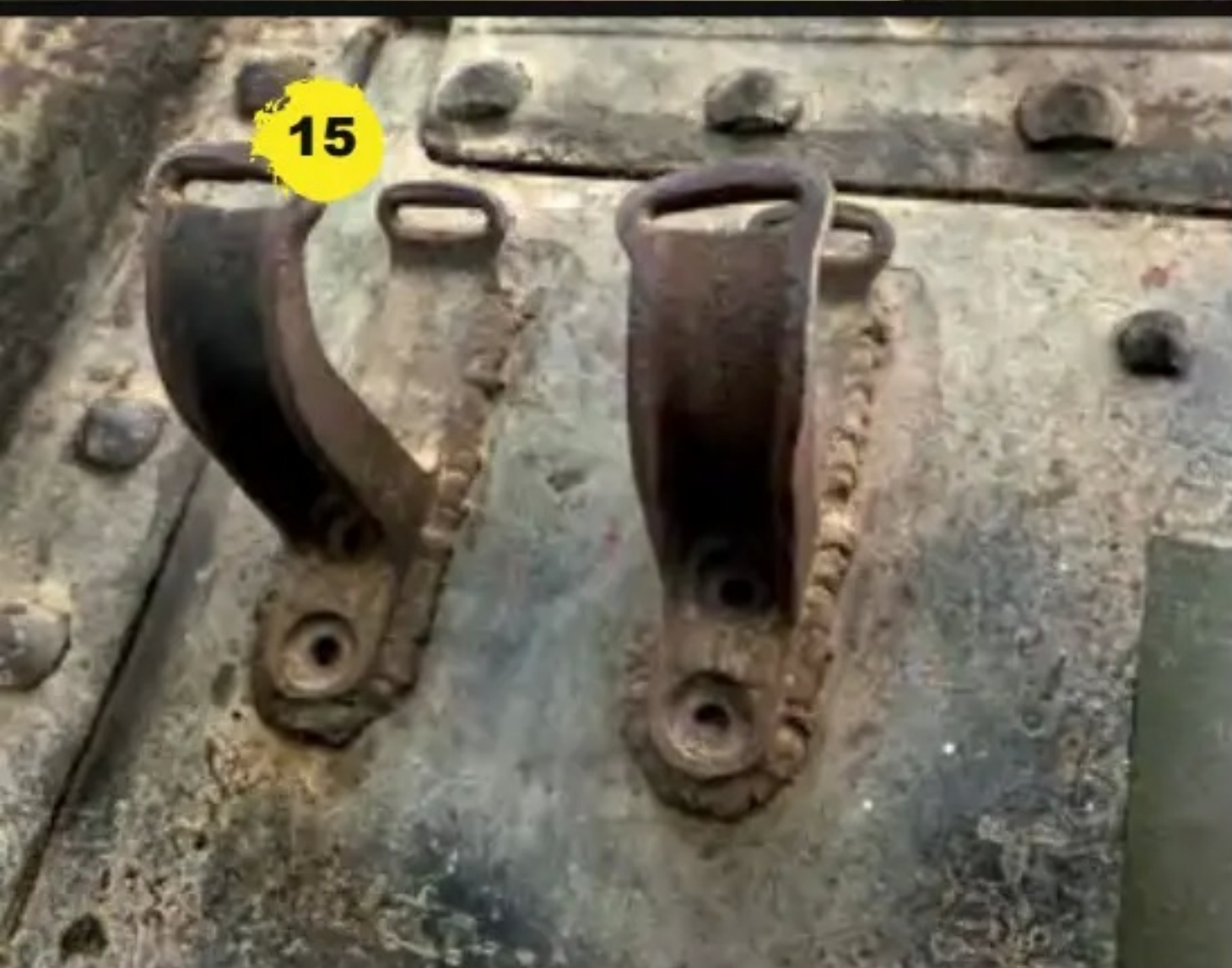
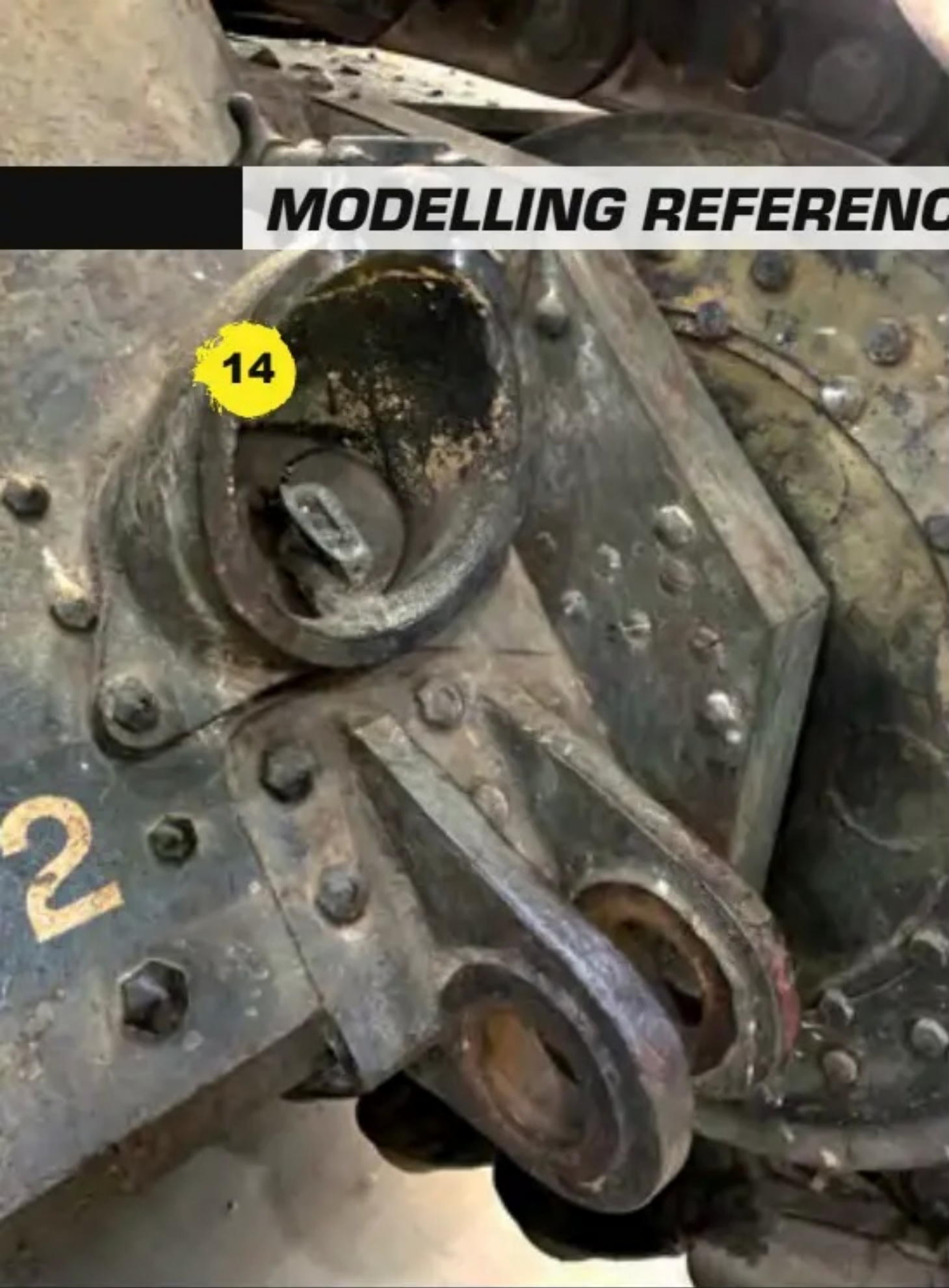
Photographs from The Tank Museum:
www.tankmuseum.org





1: Overall view of the right-side of the hull showing the large crew hatch and massive hinges. **2:** Close-up on the left-side idler, giving a good idea of the track links' construction. **3, 4:** Closer in still and we can see how each link is pinned to the next. Note the pair of mud ejector-holes on the each side of link. **5:** This Char B1's track guards seems to be covered in a thick, hardened coating of some sort, perhaps bitumen? **6:** This close-up on a track link's outer surface shows the heavy rivets that hold the tread plate to the inner, articulated mechanism. **7:** Mounted atop the track guard is the tank's distinctive heavy-duty jack. **8:** This slightly awkward view shows the curved bracket that holds the exhaust box to the track guard, from underneath. **9:** This example is somewhat twisted, but here we can see one of the pressed-steel exhaust outlets in close-up. **10:** Here we see the Char B's 75mm main gun, removed from its hull-front mount and placed on display next to the tank. **11, 12, 13:** Detail views of the 75mm gun's mantlet, also coated with tar or a similar substance.





14: The front-left idler and towing point can be seen here, as well as the armoured headlight housing.
15: These brackets do not appear on all Char Bs but are usually seen with spare track links hanging from them.
16: The pair of large, cylindrical items seen here are support beams that hold the tank up for track maintenance.
17: Frontal view of the driver's heavily armoured 'hood' with central vision slot.
18: Hull and idler wheel showing the bolts and screws used in their construction.
19: Left-side drive sprocket, revealing a rust build-up from having sat stationary for many decades.
20: Mud ejector-chute and location point for the aforementioned service beams.



A German soldier poses proudly on a tracked Renault B1 bis tank. It's tank No.209 named 'SENEGAL' belonging to the 15th BCC, 1st section of the 1st Company; destroyed by an anti-tank weapon on May 19th, 1940

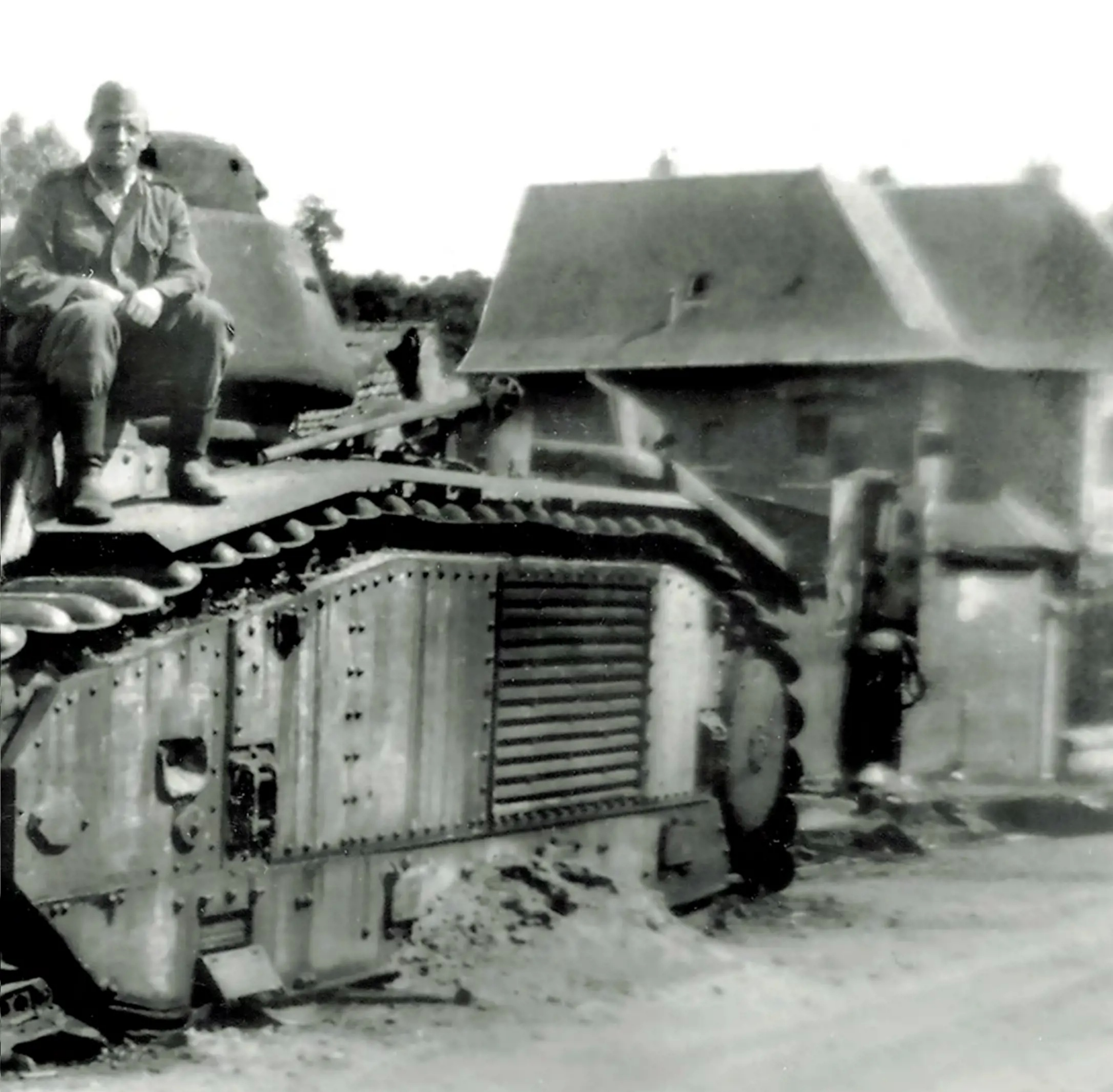


French B1 bis tank s/n 260 Ouragan, of 8th BCC, after its capture by German forces in 1940



**“AMONG THE MOST POWERFULLY ARMED
AND ARMoured TANKS OF ITS DAY, THE
TYPE WAS VERY EFFECTIVE IN DIRECT
CONFRONTATIONS WITH GERMAN ARMOUR IN
1940 DURING THE BATTLE OF FRANCE...”**

German photography (col. Normandie Mémoire) In a street lined with houses, a tracked Renault B1bis tank on the left. This tank can be seen in close-up on p003073 Next to it is a German truck with registration: IY=Reg. Bez. Düsseldorf Subject to a Krupp L6.5 N42 or N62, see here: Renault B1bis tank N° 209 named SENEGAL belonging to the 15th BCC, 1st section of the 1st Company; destroyed by anti-tank weapon on May 19, 1940



A Belgian civilian and a German soldier observe an abandoned French Char B1 named 'VAR' (37th battalion) in the village of Ermeton-sur-Biert near Namur, sometime after 14th May 1940



STREET FIGHTERS

This dramatic image depicts an M4 Sherman of the 22nd Tank Battalion, 11th Armored Division accompanying US soldiers of the 55th Armored Infantry Battalion through a narrow street in Wernberg, southern Germany. Note the track grousers fitted to the tank's tracks, designed to lower the ground pressure and allow the vehicle to drive over soft ground and snow. Also noteworthy is the large tarpaulin that neatly covers the items of equipment and ammo boxes on the engine deck. •

Photo: US archives/public domain



AC MODELS, NEW ZEALAND

AC Models hails from New Zealand. Yes indeed, New Zealand! The All Blacks and Maori people might spring to the minds of most when this country is mentioned. However, this plucky little nation has another string to its bow in the form of 1:16 and 1:35 figures. Andy Cairns approaches his figure sculpting in the fashion of an expressionist artist: his figures are full of pathos, drama and world weariness that in this case one would expect to see on middle aged reservists going into battle in an endless war against overwhelming odds. Not only do the faces of the figures tell their own stories but the very folds of their uniforms and slouched positions designed to fit around a BMP-2 or -1 for that matter add to the overall drama and diorama potential. There are eight figures in total, including three crew members in traditional Soviet style tank helmets along with five tank riders wearing the typical uniforms and equipment that one will see in photos and footage from the Ukrainian frontlines. The kit also includes an assortment of infantry weapons. Clean up is required on these resin pieces but it's not overly taxing. AC models 1:35 figures, along with other figures in their catalogue, will turn any vehicle into a dramatic stage on which their humanity will be all too present. So for those who want to capture this almost fleeting quality in their dioramas and vignette, these little New Zealanders come highly recommended. **ZVC**

1:35 resin figure set

- Ukrainian tank riders and crew (ACM 35972)



PLUS MODEL, CZECH REPUBLIC

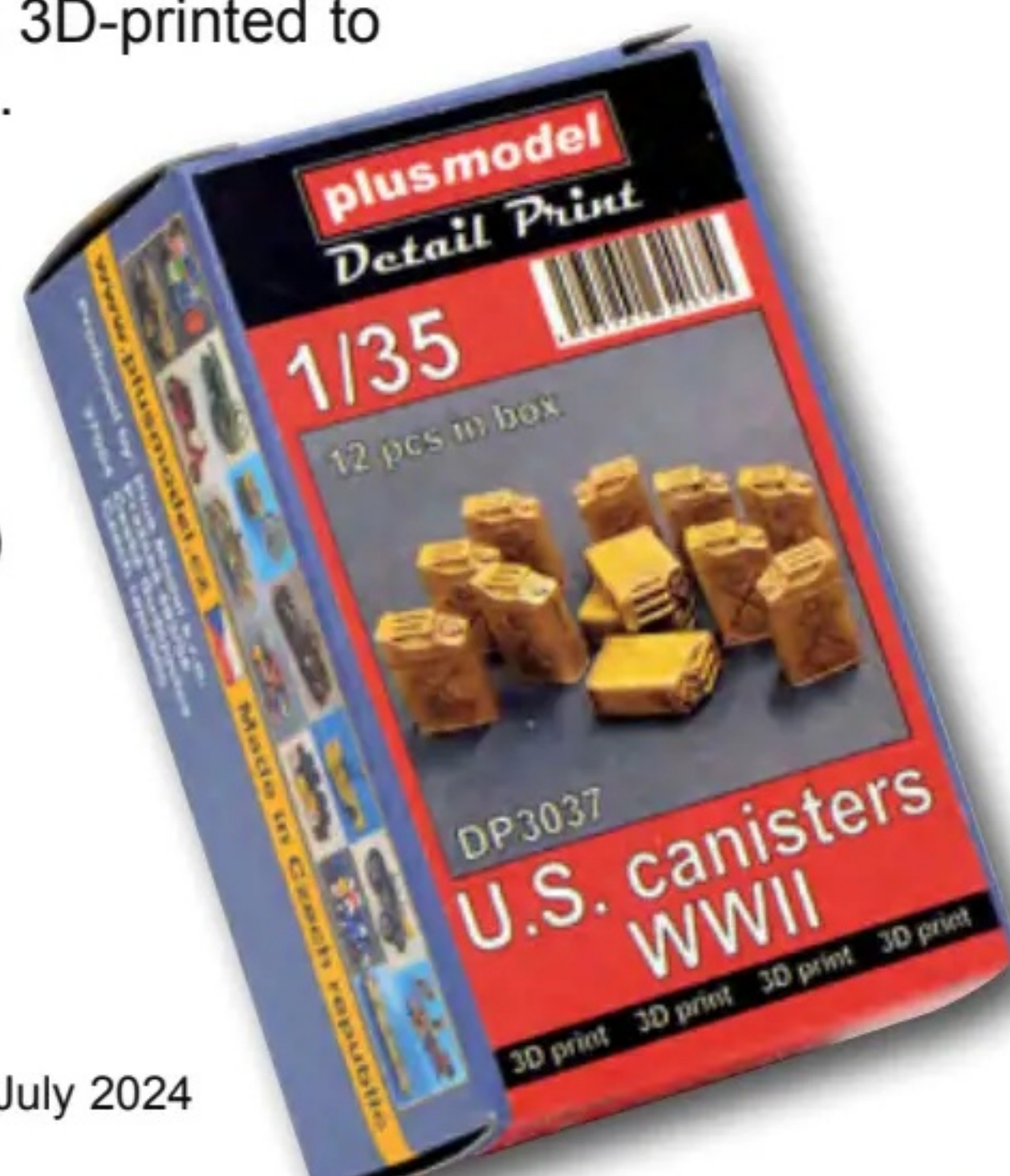
Recently arrived from Plus Model is the US WW2-era PE-95 electricity generator, a unit that used the 35bhp petrol engine from a Willys Jeep connected to a powerful 10Kw/h generator. Interestingly, this is the unit featured in the recent 'K-51 Radio Truck/K-52 Trailer' kit from MiniArt (35418, pictured right), whose generator comes in the form of a sealed box. In Plus Model's resin, photo-etched metal and 3D-print kit we are treated to full detail inside and out, from the Jeep engine and generator to the radiator, battery, fuel tank and control panel. The cover panels are made by 3D-printing and feature open louvres, a superb touch and the whole thing can just be dropped onto MiniArt's K-52 trailer for a serious upgrade! Stunning detail. Also new is a set of twelve, beautifully detailed US WW2 fuel cans, again 3D-printed to impressive levels of detail.

1:35 resin, PE and 3D full kit:

- US Generator PE-95 (590)

1:35 3D-print accessories

- US Canisters WWII (DP3037)



Best brass around



eduard

M3A2 HALF TRACK

Tamiya 1/35

#36516

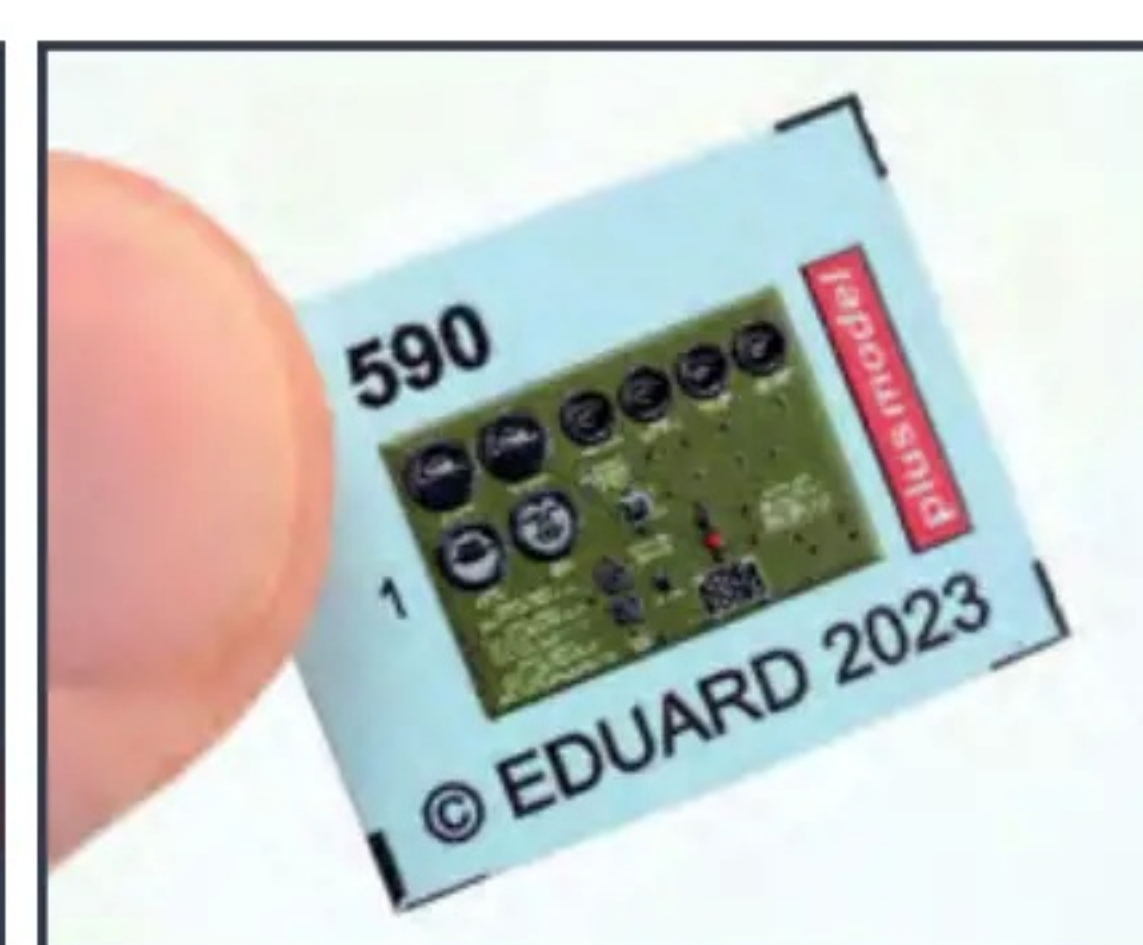
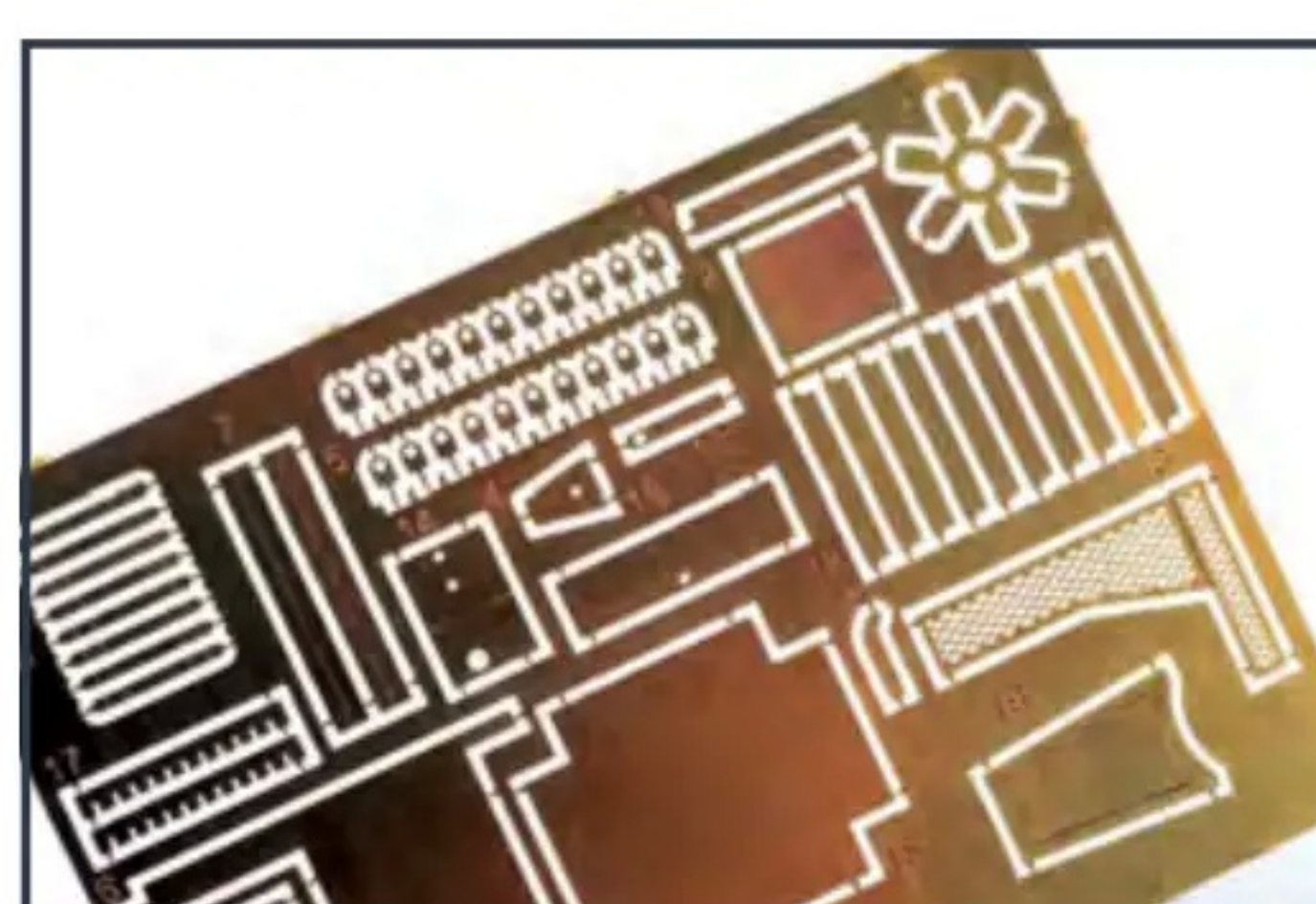
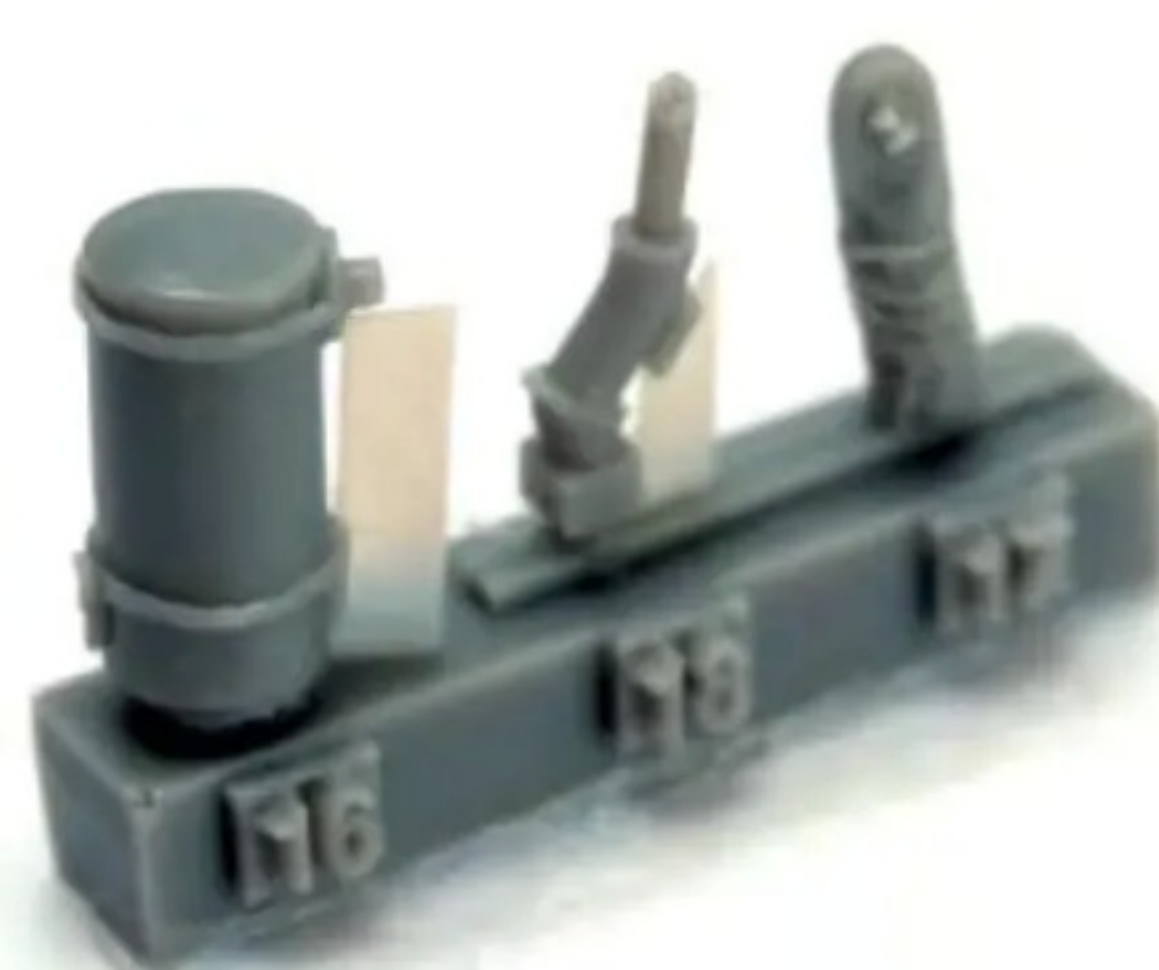
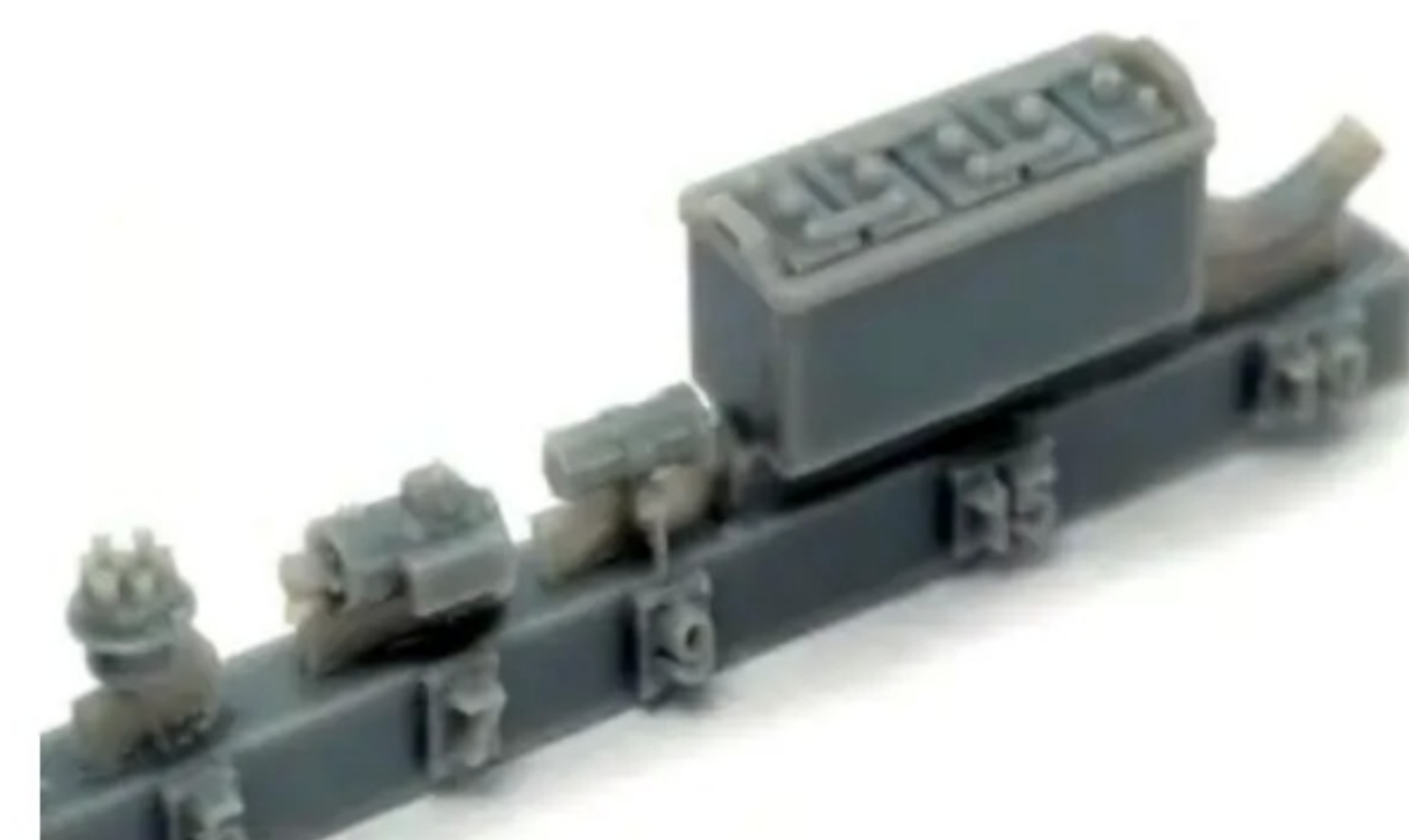


JAGDPANZER 38(t) HETZER

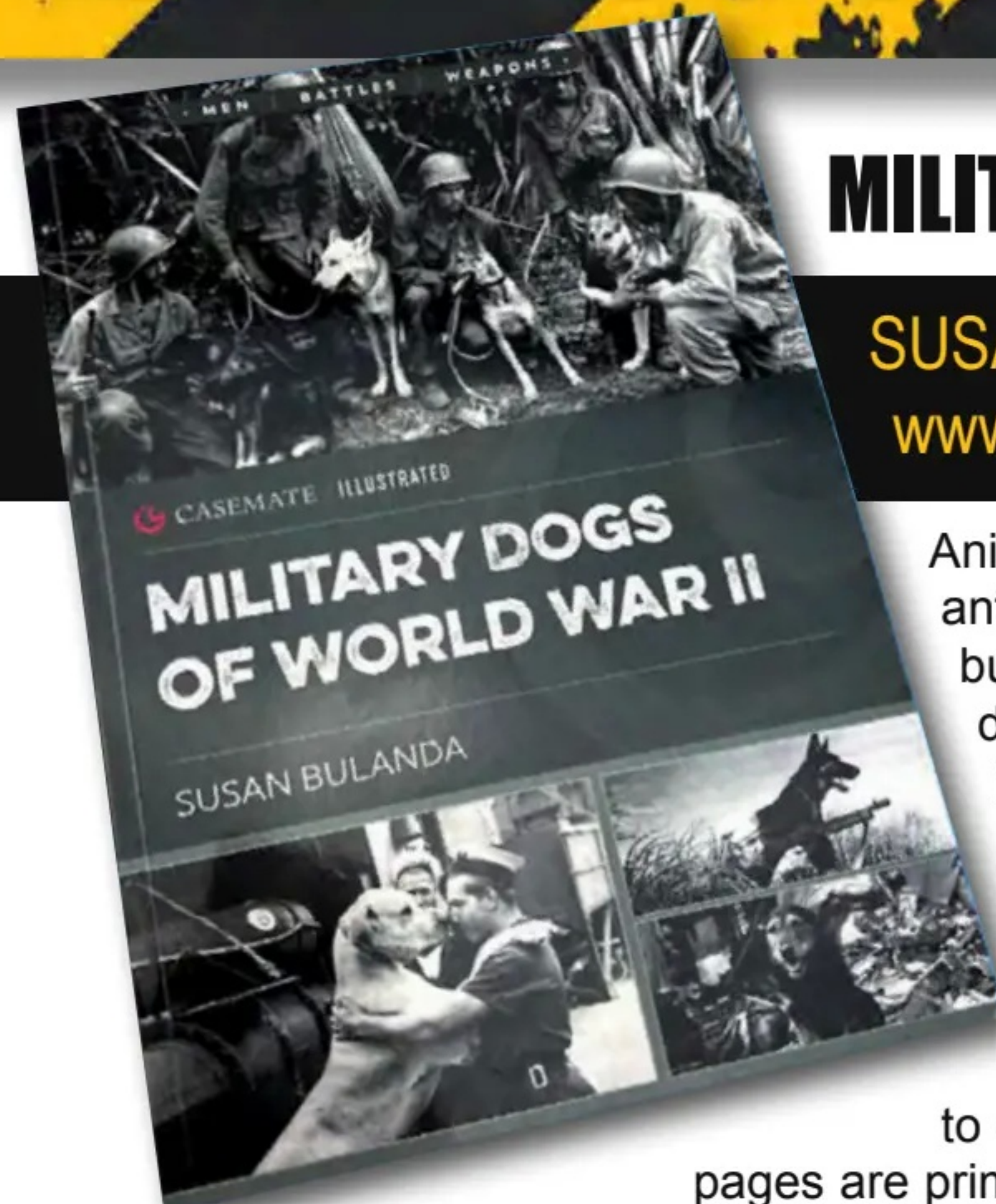
Takom 1/35

#36517

www.eduard.com



BOOK REVIEWS



MILITARY DOGS OF WORLD WAR II

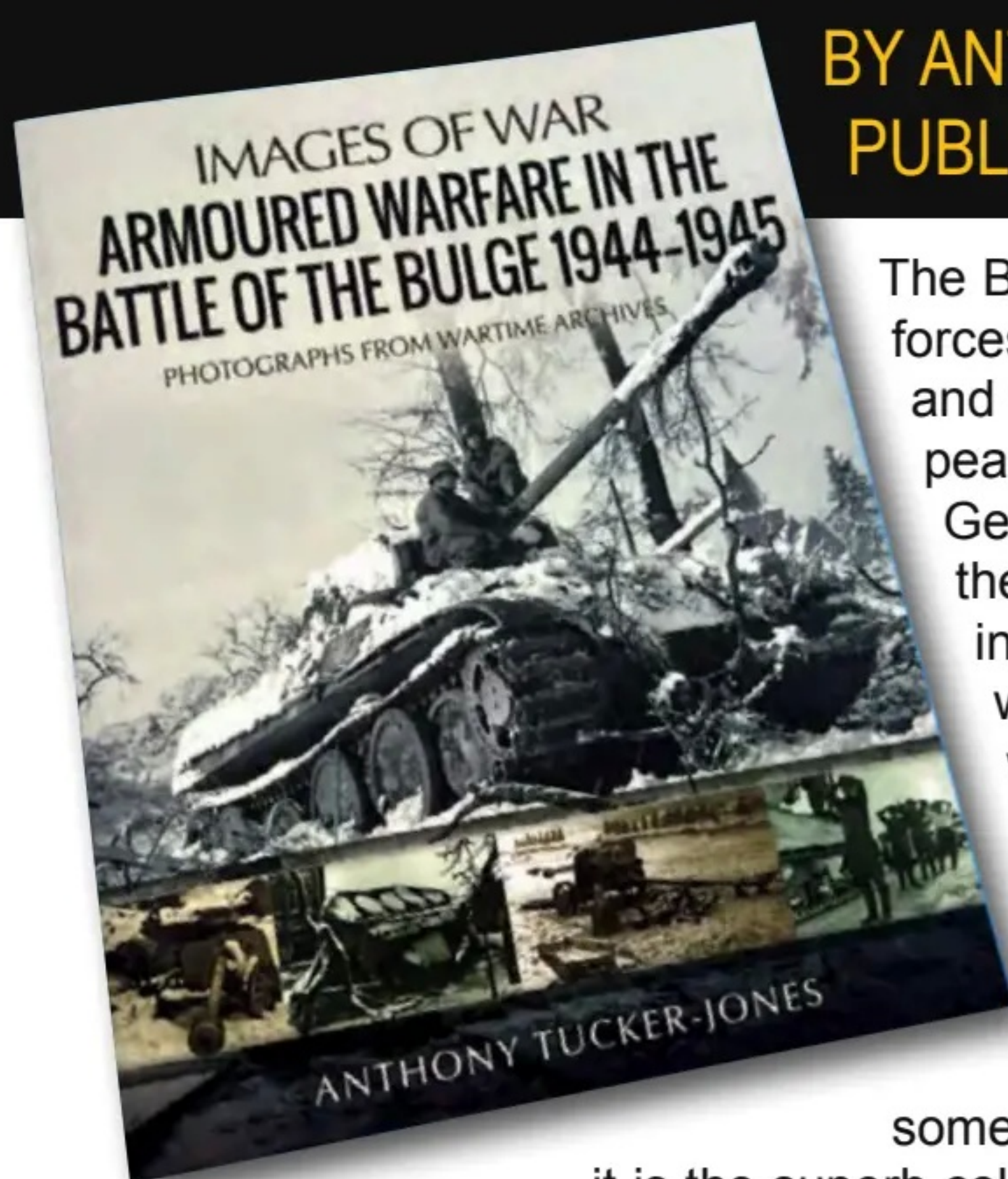
SUSAN BULANDA, CASEMATE ILLUSTRATED
www.casematepublishers.co.uk



Animals have been used by military forces since antiquity, with the horse being an obvious example, but also including donkeys, mules, pigeons and even dolphins. Dogs have also been used for various roles, including searching for mines, pulling carts, finding casualties, plus more besides. The involvement of working dogs in the military is separate from the dogs kept as companions, and battlefield dogs were often routinely shot by opposition forces who realised the work they did. This book by Susan Bulanda recognises the individual contributions of many dogs, and particular examples are illustrated to demonstrate the hard work and bravery of the dogs and their handlers in wartime conditions. The 124 pages are primarily devoted to the US forces (70 pages) and the British Commonwealth (35 pages), with just 16 pages for all other nations, despite the extensive use of dogs by Germany and Russia. In fact, the Russian attempt to train to run under tanks and set off a charge beneath them is not mentioned at all, with only a brief reference to dogs somehow self-releasing a charge beside vehicles and running away. Despite the imbalance in the book, this is a unique reference, covering a largely ignored topic of canines in action. For anyone interested in the various uses of dogs in war, particularly by the Allies, this book has a lot to offer and many doggy stories to admire. **CLS**



IMAGES OF WAR: ARMOURD WARFARE IN THE BATTLE OF THE BULGE 1944-1945

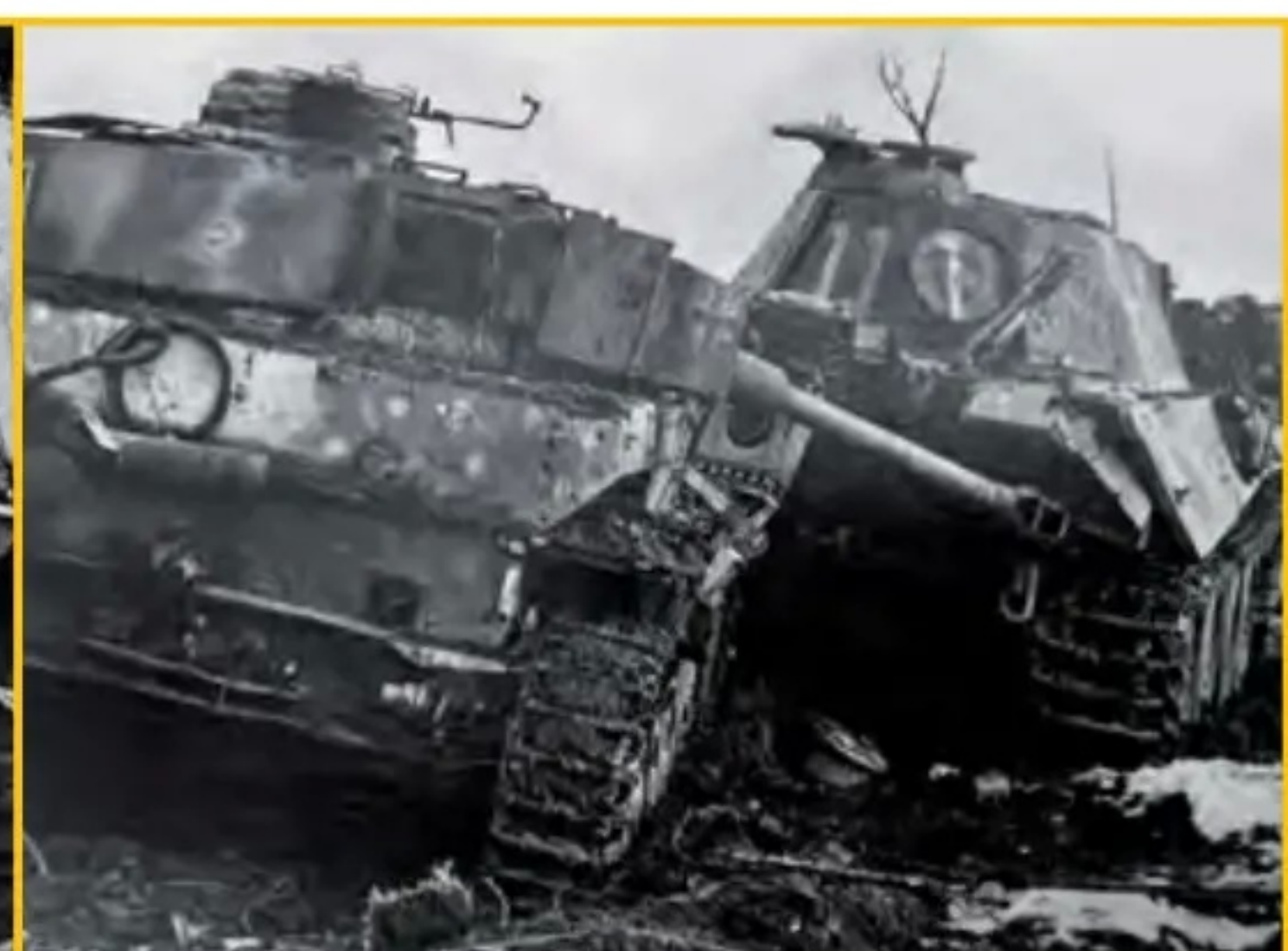


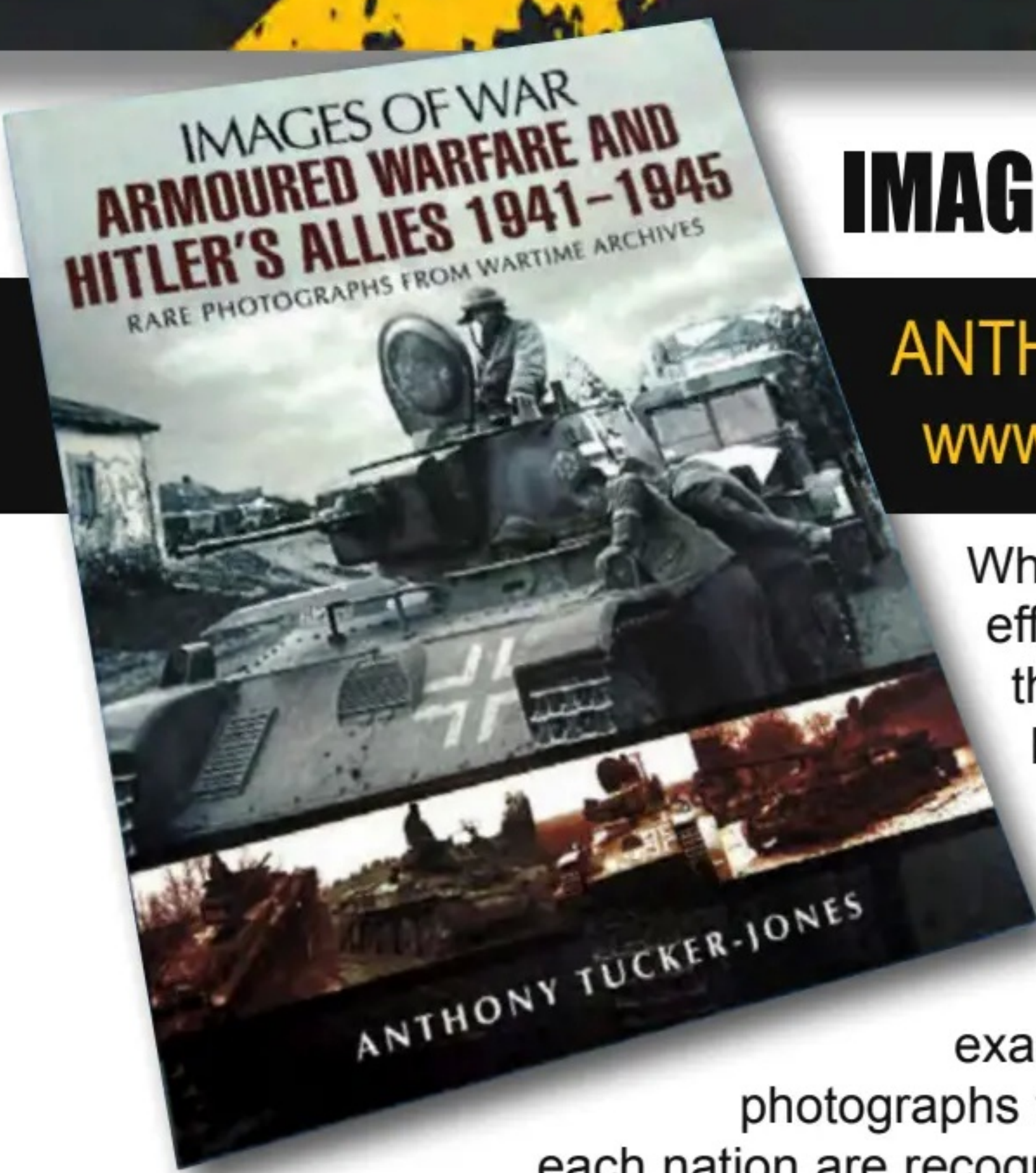
BY ANTHONY TUCKER-JONES
PUBLISHED BY PEN & SWORD MILITARY www.pen-and-sword.co.uk

The Battle of the Bulge was a last-gasp offensive by desperate German forces hoping to cut through the Allied armies and reach the coast, and through the chaos and demoralisation bring about some sort of peace deal in the West. In order to have any chance of success, the Germans gathered together their last reserves, and struck through the 'impenetrable' Ardennes forest against thinly-held American lines in a previously quiet sector. Achieving total surprise, the Germans were initially successful, with the US forces falling back in disarray, with heavy losses. However, the Germans could not maintain their momentum against stiffening resistance, and eventually the Germans were pushed back with the assistance of the British 21st Army Group. This German attack was marked by war crimes and brutality, and the US response was at times heroic. Ultimately unsuccessful, this Operation 'Wacht am Rhein' did little more than deplete German reserves and bring about their defeat. The book contains 140 pages packed with excellent photographs,



some familiar but many new in print. The text is very clear and provides a very informative picture of events, but it is the superb collection of images that will be of greatest interest to modellers wishing to capture the sense of cold and snow on their diorama. This is a great book, at a realistic price, and will be useful for modellers and researchers alike. Excellent photos explain the dreadful events in the last hard winter of WW2, although while absolutely necessary for the context, there are many pictures of dead bodies. **CLS**





IMAGES OF WAR: ARMoured WARFARE AND HITLER'S ALLIES 1941-1945

ANTHONY TUCKER-JONES, PEN & SWORD MILITARY
www.pen-and-sword.co.uk

While it is true that many of Hitler's allies in WW2 proved to be less effective on the battlefield than the German forces, nevertheless these allies made a great contribution and sacrificed much blood to further the aims of the German leader. There were volunteers from many nations who sympathised with the Nazi aspirations, but specific national contributions came from Bulgaria, Czechoslovakia, Finland, Hungary, Italy, Romania, Slovakia, Spain and Ukraine. Each of these contributions is examined in this 112-page book, with brief text and a collection of



photographs to illustrate the armoured vehicles and the appearance of the troops. The bravery and effort of soldiers from each nation are recognised, but so is the lack of modern weapons and the difficulties experienced in opposing Soviet forces without adequate means. This book does much to raise awareness of the different nations, their equipment and their actions on the Eastern Front. Many of the photos have been seen before in print, but often without recognition of which nationality of troops is shown. The lack of industry – and in particular armaments industry – in many of these nations would prove to be a huge factor in the limited effectiveness of nations that lacked the equipment to fight on equal terms. A much needed book on a neglected subject, which may encourage modellers to consider Hungarian or Romanian subjects, for example. The book gives due recognition to the nine nations that supported Hitler militarily, but understandably, many of the photos have been seen before in print. **CLS**



THE SHERMAN – DESIGN AND DEVELOPMENT – SON OF SHERMAN VOLUME 1, TWO BOOK SET

PATRICK STANSELL, DAVID DOYLE BOOKS

www.daviddoylebooks.com Distributed in UK and Europe by Jeep Promotions (jeep.promotions@btconnect.com)



Certain books may claim to be the 'ultimate' resource for information about particular military vehicles, such as the Firefly book by Hayward, or the KV book by Stokes. The Son of Sherman book has evolved over time from a guide to building models of the tank, through ever larger editions, until finally arriving at this massive 2-volume boxed set covering the Sherman in exquisite detail. This iteration includes side-view drawings, which had been previously missing, and the organisation of the book is geared around the production of each factory rather than turret and hull type. This makes it easier to track changes that were specific to particular production runs, but the casual reader will perhaps need to flick between sections in order to understand the progression of changes. The first book covers the 75mm gun vehicles from 1942 to 1943, while the second volume looks at vehicles from 1944-1945, and then covers the component parts that were standard, plus post-war use. The books contain a multitude of large and clear photos, with excellent captions, leaving the reader clear about the important features shown. The highlight is the multi-view scale drawings, carefully annotated to show the significant features of each vehicle. Overall, this final(?) version of Son of Sherman is an incredible resource for anyone wanting to delve into the details of the tank. The title of the boxed set says Volume 1, and it is tempting to imagine further books covering the special versions and derivatives of the Sherman chassis. What is already a classic will become the iconic go-to resource. **CLS**





It's BIG!

**Saturday 9th November ~ 10.00am to 6.00pm
& Sunday 10th November ~ 10.00am to 4.00pm**

(will two days be enough?)

Admission prices to be confirmed shortly

Advance ticket sales go live in September '24
and will be available from: ipmsuk.org/ipms-scale-modelworld/
No tickets on sale at the door.

Almost 200 Club Displays, over 100 Trade Stands and the IPMS (UK) Annual Competition

Scale ModelWorld 2024

The World's Greatest Model Show

The International Centre Telford Shropshire TF3 4JH



Editors; Aircraft Edition - Brett Green
AFV Edition - Marcus Nicholls
Publisher; Alan Harman
Graphic Design; Alex Hall
Advertising Manager; Alan Harman
Administration; Russell Wray
MIM Website; Doolittle Media Web Team

Printed by;
Micropress Ltd

Distributed by;
Seymour Distribution
2 East Poultry Avenue, London, EC1A 9PT
Tel; 020 7429 4000

Newstrade;
Select Publisher Services
3 East Avenue, Bournemouth, BH3 7BW
Tel; 01202 586848
Email; tim@selectps.com

Military Illustrated Modeller is published on the third Thursday of each month by; Doolittle Media, The Granary, Doolittle Lane, Totternhoe, Bedfordshire, LU6 1QX UK
www.doolittlemedia.com
Tel; +44 (0)1525 222573

Editorial enquiries;
Aircraft Edition email;
brett@doolittlemedia.com
AFV Edition email;
editor@tamiyamodelmagazine.com

Advertising enquiries;
Tel; +44 (0)7708 028024
Email; alan@doolittlemedia.com

Subscription enquiries;
Tel; +44 (0)1525 222573
Email; enquiries@doolittlemedia.com

Reproduction in part of any text, photograph, or illustration without written consent from the publisher is strictly prohibited. While due care is taken to ensure the contents of Military Illustrated Modeller is accurate, the publishers and printers can not accept responsibility for errors and omissions.

Advertisements are accepted for publication in Military Illustrated Modeller only on Doolittle Media's standard terms of acceptance of advertising, copies of which are available from the advertising department. Please write to the address above. All advertising, circulation and subscription enquiries should also be directed to the UK address above.

Subscription rates:
Option 1: 12 Issues (AFV & Aircraft) -
1 year UK - £76/Europe - £90/World - £100
(prices include shipping)

Option 2: 12 Aircraft Editions -
2 years UK - £76/Europe - £90/World - £100
(prices include shipping)

Option 3: 12 AFV Editions -
2 years UK - £76/Europe - £90/World - £100
(prices include shipping)

For all orders, please call;
(UK) +44(0)1525 222573
or visit www.doolittlemedia.com

**DOOLITTLE
MEDIA**

© Doolittle Media 2024

Military Illustrated Modeller Issue 155 Aircraft Edition on sale 18th July 2024



HAVE TANK, WILL TRAVEL

Dora Wings' 1:48
P-47C Thunderbolt by
Brett Green



JUNGLE WRECK

Taking a close look
at a wrecked and
recovered early
P-47D Thunderbolt.



SILENT DESTRUCTION

Dragon 1:35 A4V-2 by Brett
Green, Painted by Chris Wauchop

Military Illustrated Modeller Issue 156 AFV Edition on sale 15th August 2024

MARIUPOL DEFENDER

ICM's 1:35 Ukrainian Kozak
APC in digital camouflage



DEAD MAN'S CORNER, CARENTAN

A look at some of the the unique artefacts on show at this famous museum in Normandy



RENOVATION SENSATION

Jaffe Lam does a fantastic repaint of his Hobbyboss
1:35 Pz.Kpfw.I Ausf.F

AN AMERICAN IN PARIS

A US Army M8 Greyhound armoured scout car of Troop B, 102nd Cavalry Reconnaissance Squadron passes under L'Arc de Triomphe in central Paris after the liberation on August 29th, 1944. Note how the identifying numbers of the vehicle have censored for security reasons. With the 1:16 kit by Andy's Hobby Headquarters of this vehicle on sale, now is the time to go full-on Greyhound! •



NEW from the 'HOW TO BUILD...' series



How to Build... TAMIYA'S 1:48 LOCKHEED P-38F/G LIGHTNING

By Marcus Nicholls

The Lockheed P-38 Lightning is an iconic US fighter from the Second World War. Its twin Allison V12 engines were mounted in booms to free-up the nose so it could house a fearsome array of four M2 Browning machine guns and a 20mm cannon. The twin-boom airframe became a sight feared by enemies wherever it served, with good reason.

In 2019, after several years of painstaking research, Tamiya released an all-new kit of this sleek aircraft and it has taken its place proudly in the 1:48 Aircraft Series as No.120 in the range.

In this new 'How To Build' book, Tamiya Model Magazine's Editor, Marcus Nicholls, presents no less than four built-up examples of Tamiya's fantastic model; one Lightning each from Brett Green and Spencer Pollard, plus two from Marcus Nicholls.

The second of Marcus's models incorporates resin and photo-etched super-detail sets from Eduard, showing how they can be used within the build to take the detail to an even higher level. New photos of the other models show how Brett Green and Spencer Pollard built and painted the models in their own styles.

The book includes four complete builds, covering the following topics:

- Adding photo-etched parts
- Using resin upgrade components
- Extending the nose undercarriage leg
- Upgrading the cockpit detail
- Weathering the airframe
- Alternative decal sets

Only
£15.95
plus p&p

NOW IN STOCK

Also available



Order online at www.doolittlemedia.com or on 01525 222573



AFV model is sold separately.

Infantry to the Front!

1/35 Military Miniature Series

German Infantry Set (Late WWII) (Item 35382)

This detailed figure assembly kit set recreates German infantry from the latter stages of WWII, when German fortunes had begun to wane. Soldiers are artfully recreated in 1/35 scale, with the basic late-war uniforms including camouflaged ponchos. Ingenious parts breakdowns ensure a really satisfying end result while keeping the paint job relatively simple for modelers, and there are plenty of accessories in the kit to add even further life to your creations. Why not pair them with our new Panzer IV/70(A), or another model from our range of late WWII German vehicle kits, making your own dramatic diorama?



★A wide variety of accessories will liven up your creation!



Insignia decals are included.

Actual size ▶



★Choose helmet or cap for NCO figure.

★Choose mine or stick grenade for this soldier.

★Accessories fit naturally to the figure contours.

Main Tamiya Colors

Tamiya Color Enamel Paints (XF) / Tamiya Color Lacquer Paints (LP)

- XF-65 Field grey ●XF-57/LP-75 Buff
- XF-15/LP-66 Flat flesh



1/35 German Panzer IV/70(A)
(Item 35381)



1/35 German Jagdpanzer IV /70(V)
Lang (Item 35340)



1/35 German Tank Destroyer Hetzer
Mid Production (Item 35285)



1/35 Mtl.SPW Sd.Kfz.251/1 Ausf.D
(Item 35195)



1/35 German Infantry Set (Mid-WWII)
(Item 35371)



1/35 German Front-Line Infantrymen
(Item 35196)

1/35 SCALE MILITARY MINIATURE SERIES

From our brand-new Panzer IV/70(A) to classic Lang and Hetzer model kits, there are plenty of 1/35 scale partners for this set, not to mention a range of other German WWII figure sets. Let your imagination go!

★Images show assembled and painted kit.
★Products may vary from images shown.

Check Tamiya's homepage for the latest releases! [www.tamiya.com]

